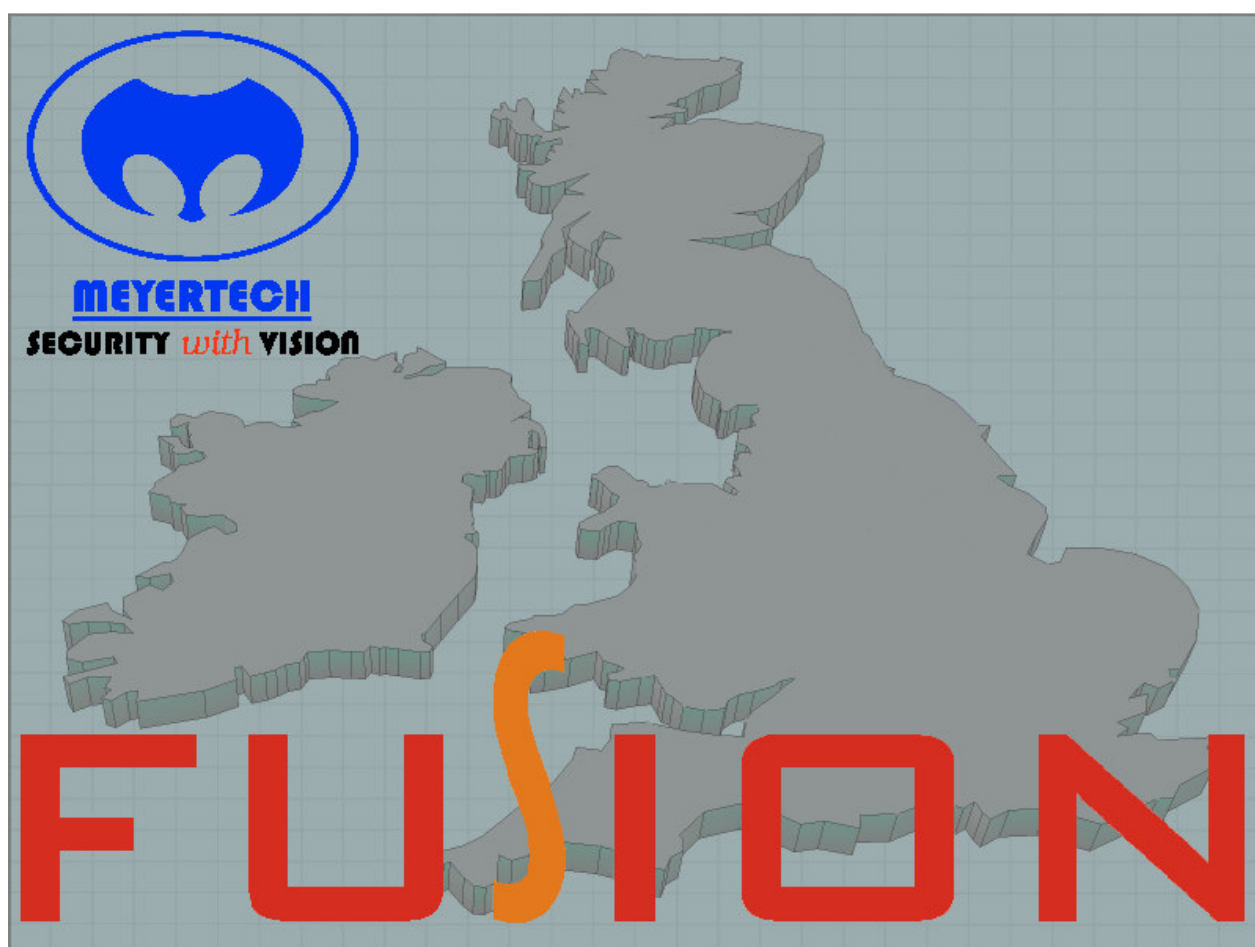


FUSION

FUSION EDIT USER GUIDE



FUSION EDIT

Fusion configuration tool

Issue 18

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Introduction

Thank you for purchasing Meyertech's FUSION software. Please read this user guide prior to using either Fusion or Fusion Edit.

What is FUSION Edit?

FUSION is a software application developed by Meyertech to manage ZoneVu CCTV systems more efficiently and effectively.

FUSION Edit is the application which provides the configuration for Fusion.

FUSION EDIT will not run unless the machine has a valid installation of FUSION on it.

The features described in this manual refer to :

Version 1.23.0.0 of the FusionEdit Application

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KEY FEATURES

- AS IT'S NAME SUGGESTS FUSION 'FUSES' TOGETHER THE VARIOUS ELEMENTS OF A CCTV SYSTEM PROVIDING UNPARALLELED LEVELS OF INTEGRATION
- FUSION HAS BEEN DEVELOPED AS A SUITE OF APPLICATIONS, WHICH CAN BE PURCHASED SEPERATLY TO MEET YOUR REQUIREMENTS AND BUDGET
- FUSION PROVIDES THE FLEXIBILITY TO MANAGE YOUR SYSTEM MORE EFFECTIVELY BOTH LOCALLY AND INTERSITE
- TRUE MULTI-SITE MANAGEMENT FROM A WINDOWS GUI PLATFORM
- FUSION DOES NOT REQUIRE A SERVER AND CLIENT NETWORK.
- UNIQUE PASTEL MAPS REDUCE OPERATOR FATIGUE

FUSION

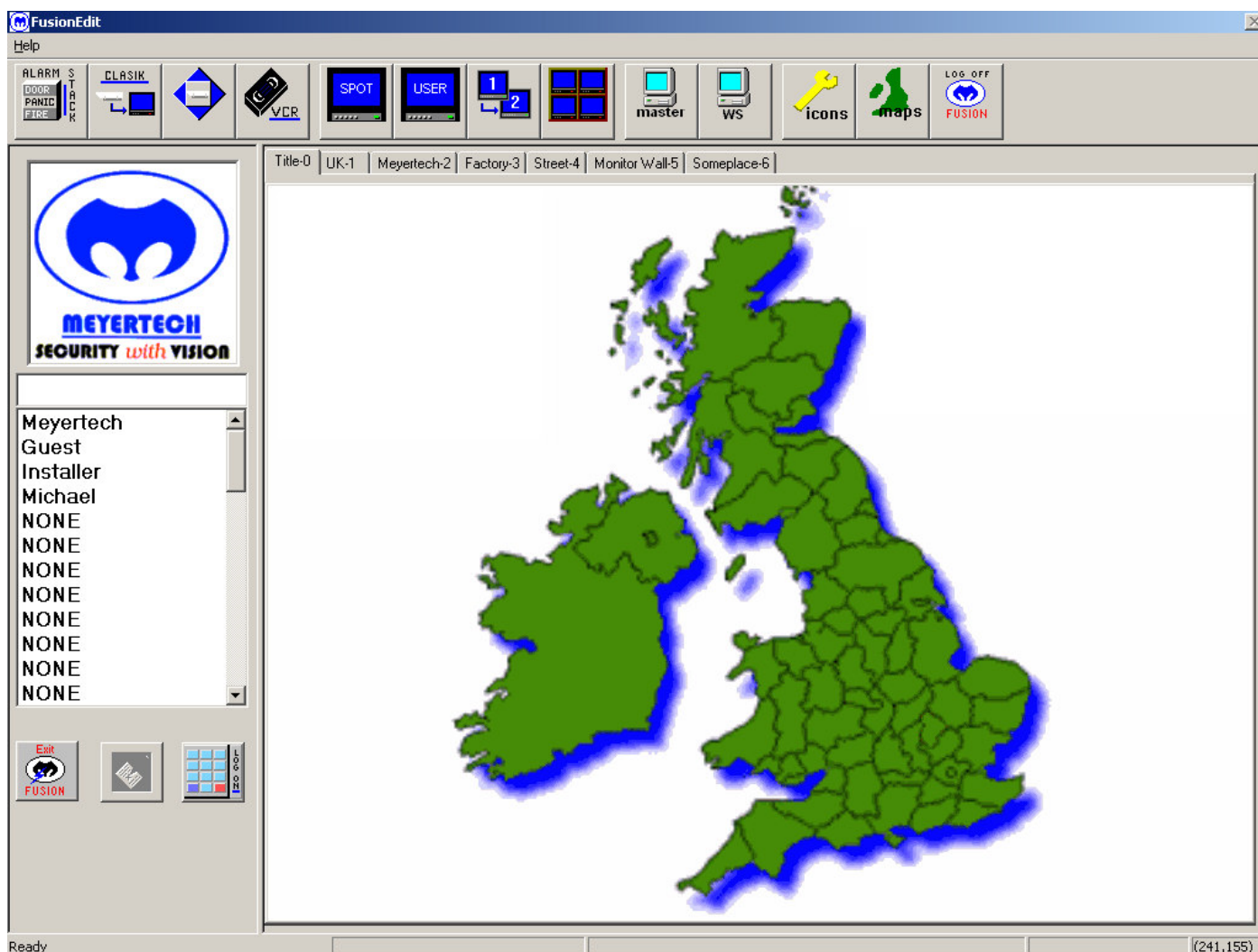
FUSION EDIT OVERVIEW

Logged Off Screen

The **Logged Off** screen (shown below) or 'Title Screen' as it is sometimes referred to is the quiescent, logged-off state for FUSION EDIT.

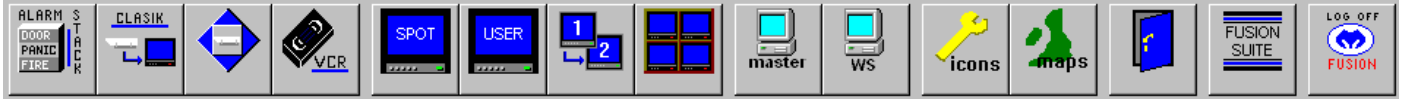
It is the initial screen displayed when FUSION EDIT is started from Windows and it is also the screen from which to quit the FUSION EDIT application.

The FUSION EDIT screen is split into three main areas, **Toolbar**, **Control Panel** and **Map Area** all of which we will now explore. In the logged off state the Control Panel always shows the operator log-on list, and in the Map area the FUSION Splash Screen is always shown.



Toolbar Buttons

The **Toolbar** across the top of the screen is used to select which type of controls are to be configured in the Control Panel



Toolbar buttons only function once you have logged onto FUSION.

From left to right the buttons are:

- Alarm setup - text
- Classic setup – site names and zonal switches
- Camera control – user buttons
- EVCR setup – VCR configuration
- Spot monitor –no config
- User monitor – no config
- Relay monitor – additional monitor button configuration
- Monitor wall – digital display wall
- Master configuration – coordinating setup across workstations
- WS configuration – workstation configuration
- Icons – add icons to maps
- Maps – add new maps
- Airlock operation – Add configurable door control buttons
- Fusion suite – Switch between Meyertech applications
- Log off – exit only

Log-on and Log-off Procedure

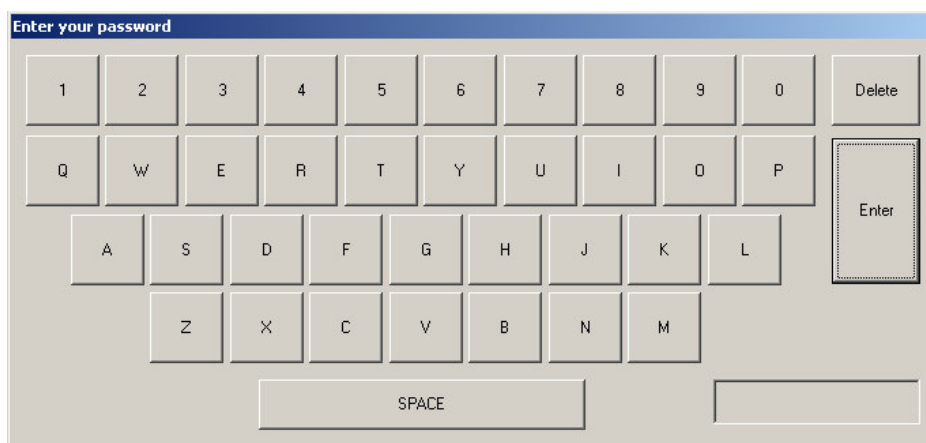
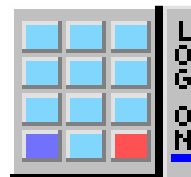
Log-on Procedure



Select your User Name from the User Log-on list shown on the left. If your name is not currently visible scroll up or down the list until you find it using the slider bar on the right of the list.

FUSION EDIT displays all user names, including those not yet defined.

Now press the Log-on button (shown right).



The on-screen keyboard will then pop-up.

Enter your Password or PIN and press ENTER. You can either press the buttons on the screen (via mouse / touchscreen) or type on your keyboard

If you enter an incorrect PIN or Password you will be returned to the logged-off screen.

When you successfully log-on the Control Panel changes to display Clask functions and the Map Area displays the Top Map.

Only users with the correct logon permissions can use FUSION EDIT – supervisors and engineers.

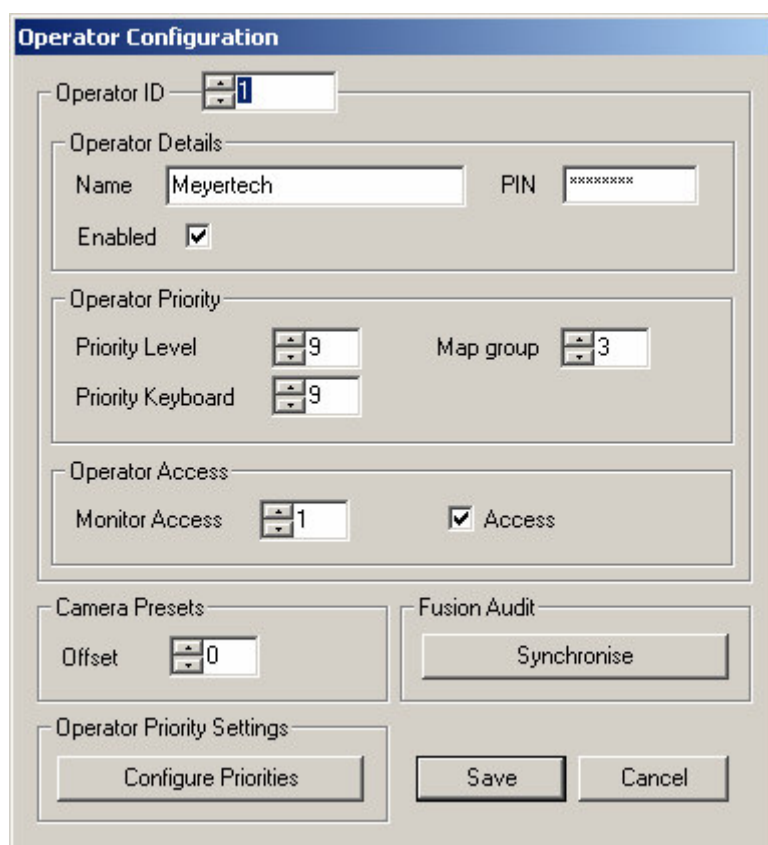
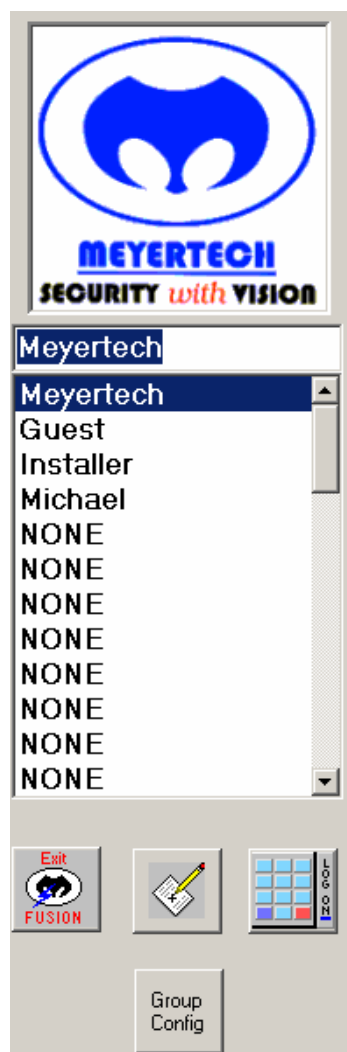
Log-off Procedure

A User can log-off FUSION from anywhere within the application I.E. you do not have to return to the top map prior to logging-off, simply press the LOG-OFF button (located on the right side of the toolbar, shown below) which will return you to the logged-off screen and user log-on list, ready for the next user.



User Configuration

Select the Edit Users Button (shown below) and a new window will open

The Operator Configuration dialog box. It contains fields for Operator ID (1), Operator Details (Name: Meyertech, PIN: xxxxxxxx, Enabled: checked), Operator Priority (Priority Level: 9, Map group: 3, Priority Keyboard: 9), Operator Access (Monitor Access: 1, Access: checked), Camera Presets (Offset: 0), Fusion Audit (Synchronise button), and Operator Priority Settings (Configure Priorities button). Save and Cancel buttons are at the bottom right.

Operator Configuration	
Operator ID: 1	
Operator Details	
Name: Meyertech	PIN: xxxxxxxx
Enabled: ☒	
Operator Priority	
Priority Level: 9	Map group: 3
Priority Keyboard: 9	
Operator Access	
Monitor Access: 1	☒ Access
Camera Presets	Fusion Audit
Offset: 0	Synchronise
Operator Priority Settings	
Configure Priorities	
Save	Cancel

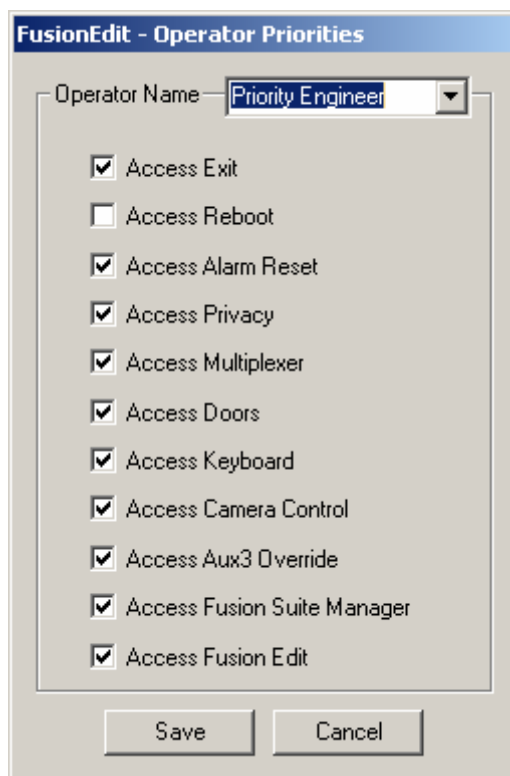
The Operator Configuration dialog is used to configure the user accounts.

By using the Operator ID spin control, any of the 49 users can be selected. For each operator ID the following is configurable:

Name	Description	Additional info
Operator		
Name	Operator name – as displayed in the logon window	18 characters maximum
PIN	Operator password	
Enabled	User account enabled or disabled	
Priority		
Level	User level (see below)	
Priority (keyboard)	Telemetry priority	
Map group	Map group	0 to 10
Access		
Monitor access	Which monitors access is allowed to	

User Access

The configure priorities button is used to manually configure the access rights for each of the available priority levels. This allows a higher level of priority configuration. All of this can be done from the following dialog:



Users can be assigned a range of access rights for each of the available priorities, these are:

- **Camera control priority**
A hierarchical system of camera control is implemented as part of the ZoneVu system. The priority that each user/workstation has within this scheme can be controlled. Additionally the ability to control cameras can be enabled / disabled.
- **Ability to control multiplexers**
The setting up and control of the system multiplexers is often critical to the operation of the control room, so the ability of users to modify these can be controlled.
- **Application controls**
The ability of an user to exit Fusion, reboot the workstation, switch to Fusion Suite Manager and access the FusionEdit application can be controlled.
- **Functional resets**
Certain functional sections of the ZoneVu system may sometimes want to be reset – following engineer activity – The ability to do this can be selectively applied to the users.
- **Privacy zone override**
Occasionally there may be operational reasons why a privacy zone may need to be temporarily disabled. The ability of a user to do this can be controlled.
- **Door Control**
The interface to a 3rd party access / door controller can be enabled or disabled by user.
- **Configure keyboards**
The Meyertech ZoneVu system allows for keyboards to be dynamically linked to a Fusion Workstation. This feature can be enabled for specific users. Note – once configured the link will apply to all users on the workstation, the feature being enabled/disabled is the ability to change the existing link..
- **Ability to disable camera features**
The Aux3 command on Meyertech's receivers is commonly used to control the power to peripheral equipment. As such the ability of users to control this relay can be limited.

Fusion Audit

The Fusion Audit synchronise button is used to generate a table of user names vs. user ids which is used by Fusion Audit to identify operators.

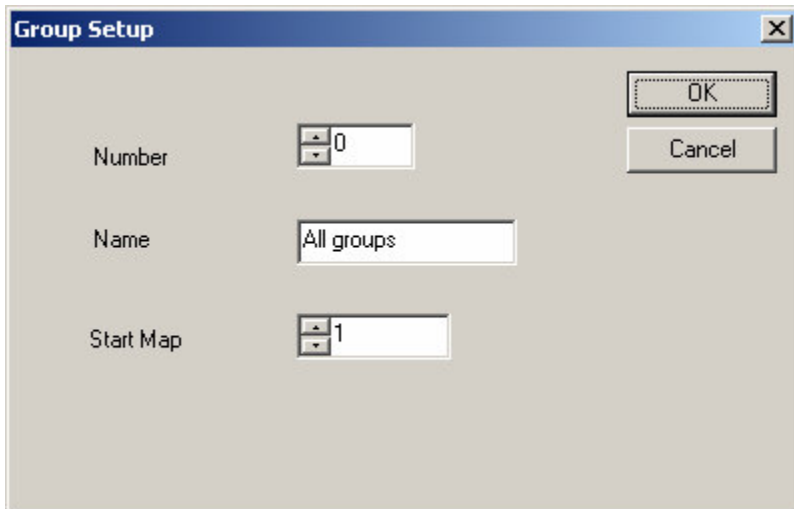
Where Fusion Audit is installed on the same machine, FUSION EDIT puts the file FusionUsers.txt automatically into the correct directory for Fusion Audit C:\Meyertech\FusionAudit\Users. If Fusion Audit is not installed the file is stored in C:\Meyertech\Fusion\Equipment and it will have to be manually copied onto the machine with Fusion Audit installed.

Groups

Operators can belong to one of 10 defined groups. When in a group an operator can only access maps that are configured as being either in their group or classed as a globally accessible maps.

An operator can be defined as being in group 0, which gives access to all maps. Similarly a map can be configured as being in group 0 and becomes globally accessible to all operators.

Each group can have a predefined start map which will displayed after logging in.



The image shows a 'Group Setup' dialog box with a blue title bar and a close button (X) in the top right corner. The dialog has a light gray background. It contains three labeled fields: 'Number' with a spinner box set to '0', 'Name' with a text box containing 'All groups', and 'Start Map' with a spinner box set to '1'. To the right of these fields are two buttons: 'OK' and 'Cancel'.

Add/Deleting maps

By selecting the Maps button on the toolbar, a dialog window will appear which can be used to configure which maps are displayed.

For each map, a name and a group can be configured.

The name will be displayed on the map Tab.

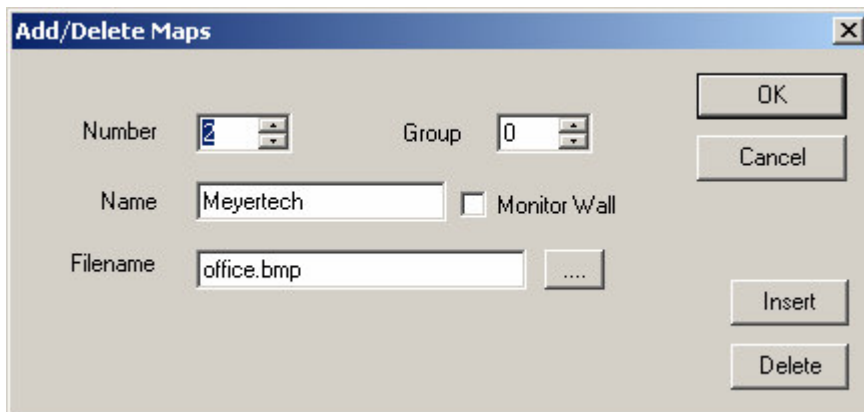
The Monitor Wall tick box should be ticked to enable a map as being a depiction of a monitor wall

The map number is important and is displayed in the map Tab (only in FUSION EDIT). This number will be assigned to arrows to navigate between maps.

The map pictures MUST be stored within the \fusion\maps subdirectory.

The Insert and Delete buttons will respectively insert an entry before the current entry or delete the current entry.

Use the browse button to select a map file. navigate your local workstation.



The generic Windows Explorer interface can then be used to

Workstation configuration

By selecting the WS button from the toolbar, the different configurations for the individual workstations can be set up.

By using the Workstation spin control, any of the 8 workstations can be selected. For each workstation the following is configurable:

Name	Description	Additional info
Configuration		
Mac	Mac number used by the ZSC-250 connected to Fusion	
Keyboard	Mac number used by Fusion for control	If using with a keyboard in PCI mode then this should have the same MAC If using a ZVK-66 keyboard directly connected to the workstation, this number must match the Mac number above.
Priority	Priority used by Fusion for control	
Timeout	User timeout period – set to 0 to disable	User is logged off if no activity within the time period
Site		
Site	Site number of WS location	
Monitors		
Spot	Monitor number of operators primary monitor	
User	Monitor number of operators secondary monitor	
Relay	Monitor number of the relay monitor	Current camera copy feature
Playback	Monitor number of the playback device	
Video		
EVCR	VCR (or DVR) number of the operators event recorder	

Keyboard Setup

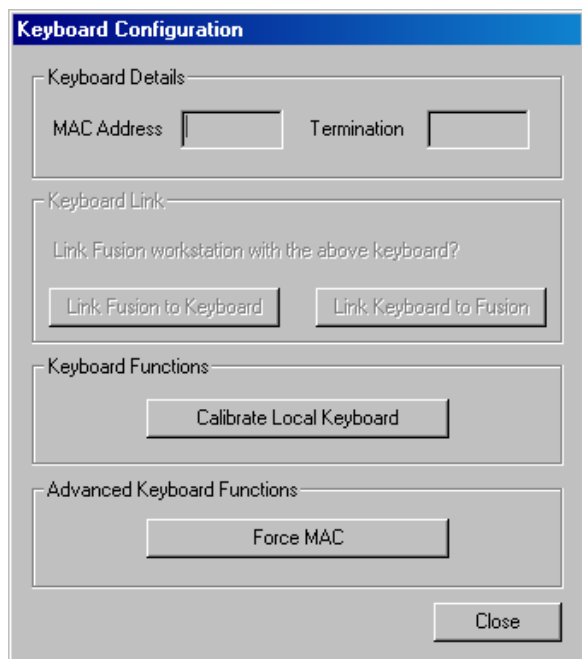
It is possible to configure a ZVK-66 keyboard through the FusionEdit GUI. Click on the Setup menu option, located at the top left of the screen, then select the keyboard config option.



This will open a new window that will display the MAC (machine access code) address and termination setting once they have been selected by the keyboard. For details about ZVK-66 configuration mode, please view the ZVK-66 manual.

When the settings are correct, press either the “Link Fusion to Keyboard” or “Link Keyboard to Fusion” button. If you do not wish to save the settings on either piece of equipment, click on close.

- **Link Fusion to Keyboard**
This will save the displayed settings to both the ZVK-66 and Fusion.
- **Link Keyboard to Fusion**
This will change the MAC of the keyboard to match the MAC currently used by the Fusion workstation,



To put the keyboard into calibration mode, press the “Calibrate local keyboard” button. This will calibrate the keyboard that is currently linked to the Fusion workstation.

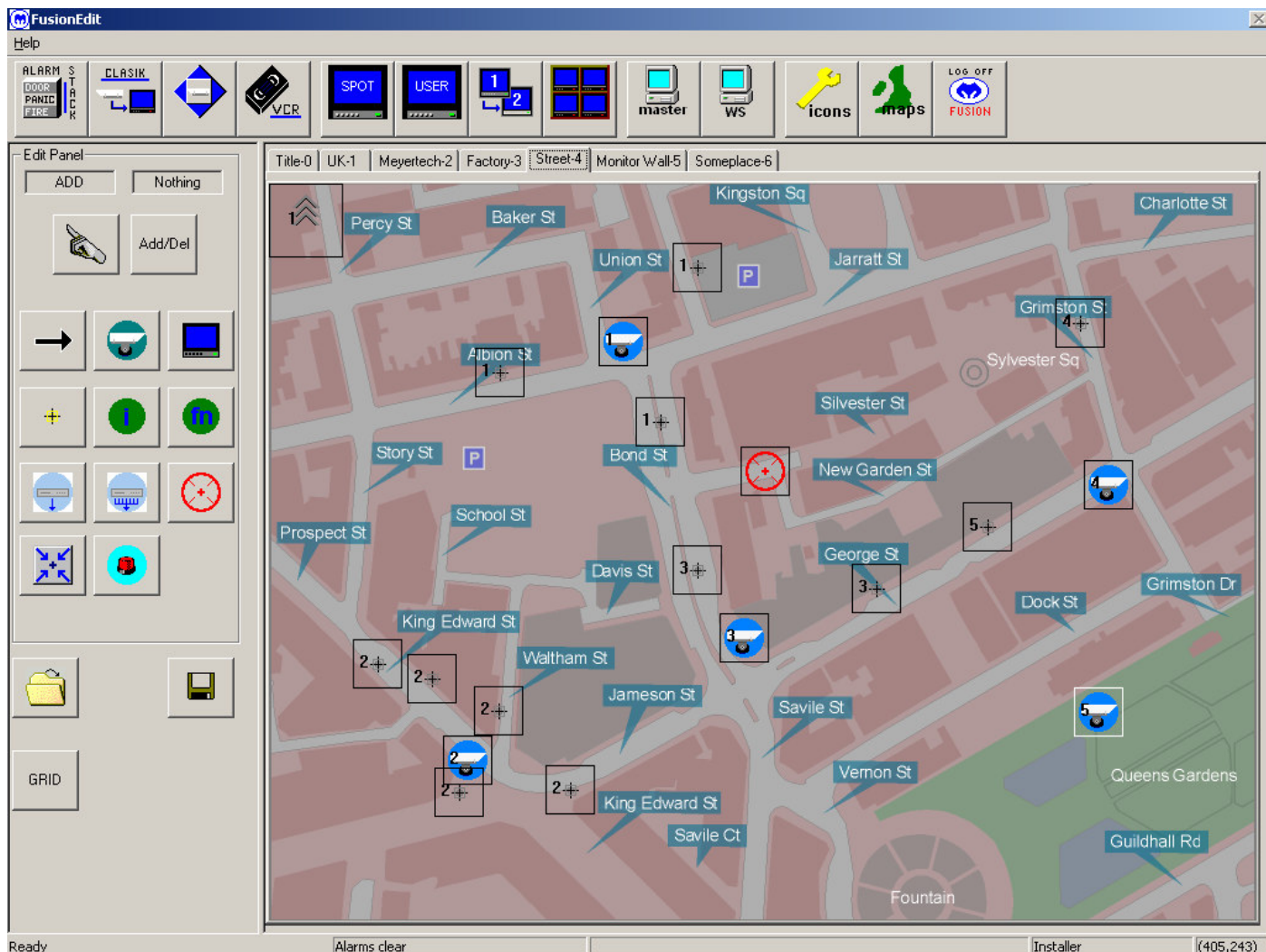
The “Force MAC” button is used to force MAC and termination settings onto a keyboard.

The **Keyboard Link** section will become active as soon as the keyboard is put into configuration.

Note this configuration screen must be displayed before putting the keyboard into configuration mode.

Icons

Various icons can be added to the maps, all of which can be selected by the operator to perform an action. On selecting the Icons toolbar button the control window displays control panel for icon adding, deleting and editing.

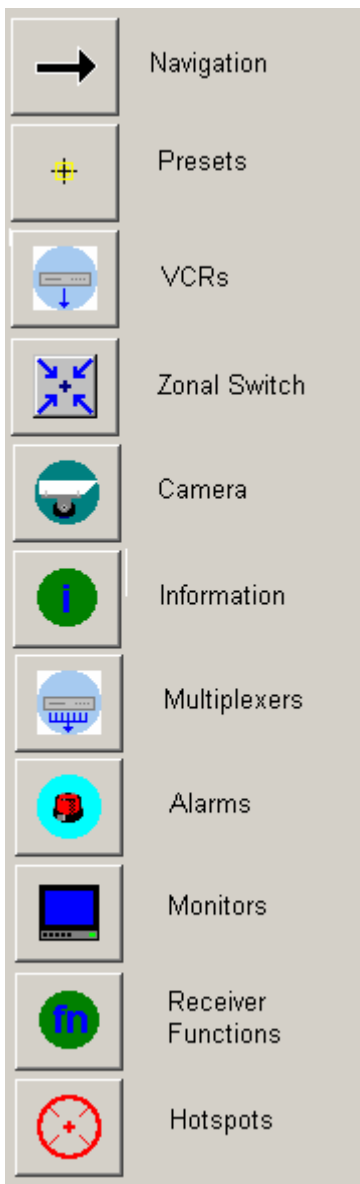


All the icons on the map are displayed with a black square around them. This square represents the touch area for the icon, various icons have different size touch areas. The size of the touch area is not configurable.

To add a new icon type, press one of the functions buttons. The Edit Panel text box, shown below, will update to show the icon type being added. The button Add/Del is used to toggle between the two modes of operation – adding icons and deleting icons.

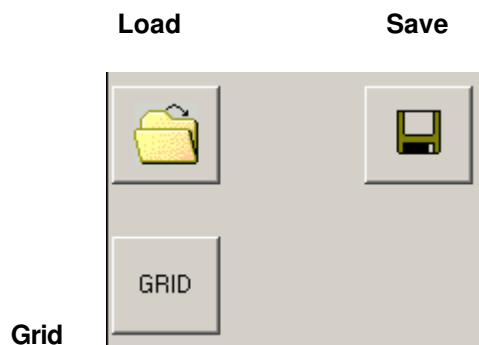


Note: only icons of the type currently selected can be deleted.



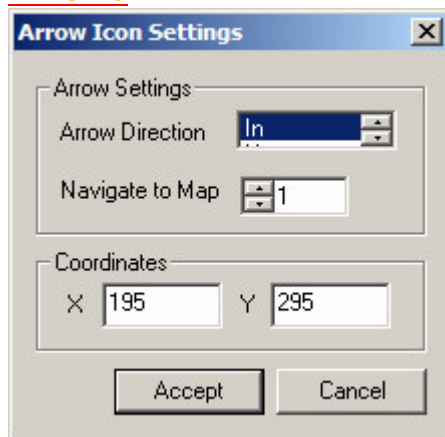
The possible icon types are shown on the left.

- Each icon has a number of different parameters that are requested when the icon is placed on the map.
- The mouse pointer will reflect the type of icon being placed, allowing exact positioning to be achieved.
- If the icon is placed in the wrong position it must be deleted then re-added.
- To delete an icon use the Add/Del button then position the mouse pointer over the icon to be deleted and press the left mouse button.
- To edit the details of an icon, position the mouse pointer over the icon and press the right mouse button.
- If you wish to save your changes press the save button – if you move to another map without saving all changes will be lost.
- The load button can be used to reload the current map icons.



- A visible grid can be turned on/off to help in the lining up of icons.
- If icons are placed on the edge of the map such that the whole icon is not visible, the icon is automatically re-positioned as close to the edge as allowed.

Arrows



Direction

- Left, Right, Up, Down, Out, In, Home, Back
- In – invisible
- Back – returns to the last selected map

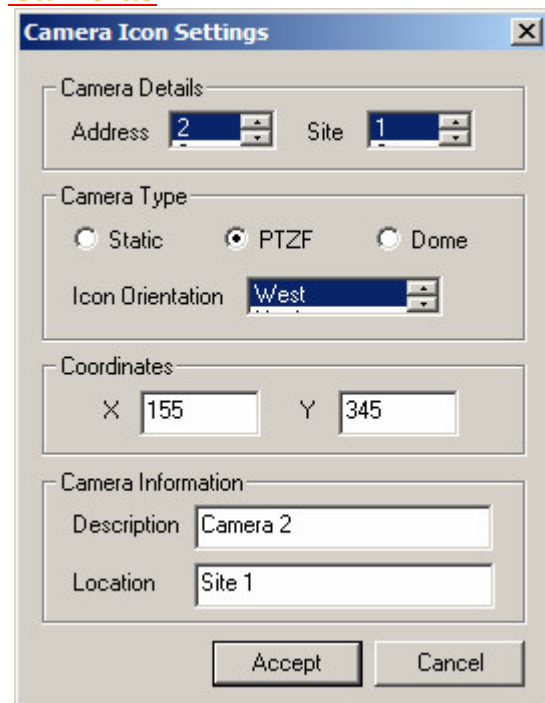
Map

- Map number linked to

Coordinates

- X and Y coordinates of the icon

Cameras



Address

- Local Camera address

Site

- Camera site (0 for local)

Type

- Static, PTZF or a dome (displays different icon)

Orientation

- East, West, South or North (displays different icon when type is static)

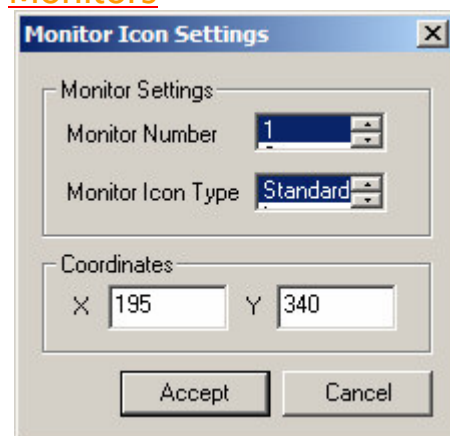
Coordinates

- X and Y coordinates of the icon

Camera Information

- Description of the current camera
- Location of the current camera

Monitors



Number

- Monitor number

Type

- Standard or large (displays different icon)

Coordinates

- X and Y coordinates of the icon

Presets

Camera

- Local Camera number

Site

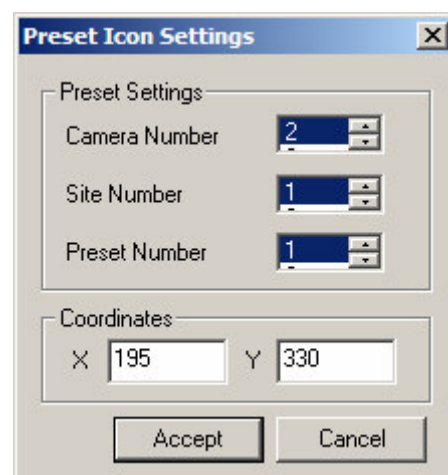
- Camera site number

Preset

- Preset number (0 is home and displays a different icon)

Coordinates

- X and Y coordinates of the icon



The 'Preset Icon Settings' dialog box contains the following fields and controls:

- Preset Settings:**
 - Camera Number: Spin box with value 2.
 - Site Number: Spin box with value 1.
 - Preset Number: Spin box with value 1.
- Coordinates:**
 - X: Text box with value 195.
 - Y: Text box with value 330.
- Buttons: 'Accept' and 'Cancel'.

Info

Contacts

- Multiple contact names
- Contact name
- Contact number

Comments

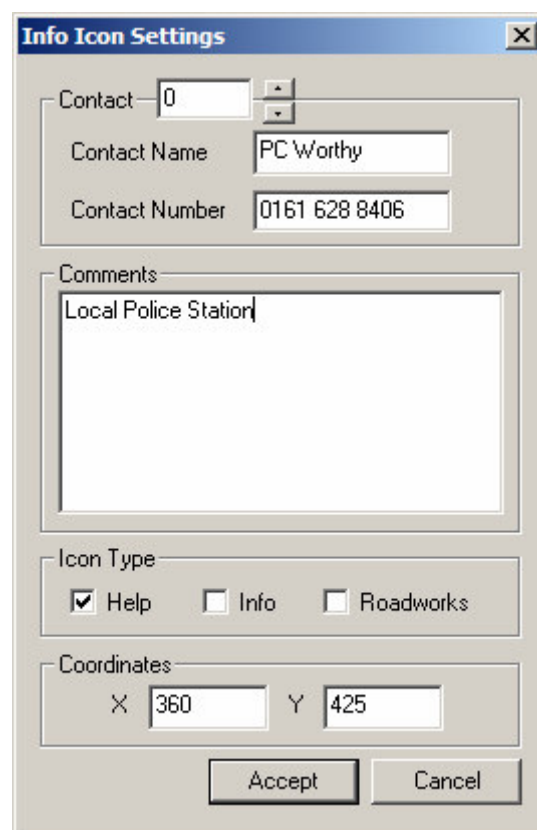
- Free text

Icon

- Selectable icon – help, info or a roadwork sign

Coordinates

- X and Y coordinates of the icon



The 'Info Icon Settings' dialog box contains the following fields and controls:

- Contact:** Spin box with value 0.
- Contact Name:** Text box with value 'PC Worthy'.
- Contact Number:** Text box with value '0161 628 8406'.
- Comments:** Large text area with value 'Local Police Station'.
- Icon Type:** Radio buttons for 'Help' (checked), 'Info', and 'Roadworks'.
- Coordinates:**
 - X: Text box with value 360.
 - Y: Text box with value 425.
- Buttons: 'Accept' and 'Cancel'.

Auxiliary Function

Auxiliary function icons can be configured to perform a combination of matrix switches and relay operations.

- 10 of switches and 10 relay commands can be configured per icon
- icon can be selected from a list
- icon will reflect the state of the relay / command
- The On command will generate the commands and the Off command (2nd press of the icon) will toggle the configured relays and switch camera 0 to the selected monitors ie undoing all of the Auxiliary functions.

Type

Icon

- Choose from one of the available options.
- The icon used does not affect the functionality

Coordinates

- X and Y coordinates of the icon

Function

Index

- 0 to 9 (allows the setting up of multiple commands for 1 icon)

Switch

- Camera number
- Site number
- Trunk number (use 0 for auto-trunk select)
- Monitor number (if 0 will use the operators current monitor)
- Remote (use for a remote site monitor switch)
- Enabled (disable all unused entries – default)

Aux Command

- Address - Local Device number
- Site number
- Telemetry board – if ticked function associated with a ZVR telemetry receiver board. Otherwise a ZVS-IOM8 relay board
- Polled Master Relay – Makes FUSION poll the state of this relay every 10 seconds and update the icon to match. When checked, an explicit site number must be specified instead of the default local site 0.
- Initial State (available for ZVS-IOM8 relays only) – The state that Fusion will assume the drive the relay ON at.
- Function – associated command
- Momentary relay
- Enabled (disable all unused entries – default)

Mode Parameter Update

- Camera number
- Site number
- Mode number (camera mode 1 to 3)
- Parameter – block number to use for the data transfer

- Value On – the value used for the icons on state
 - Value Off – the value used for the off state
 - Enabled (disable all unused entries – default)
- Please refer to the **ZVR-x30 Supported Cameras** manual for a list of the available parameter number and values.

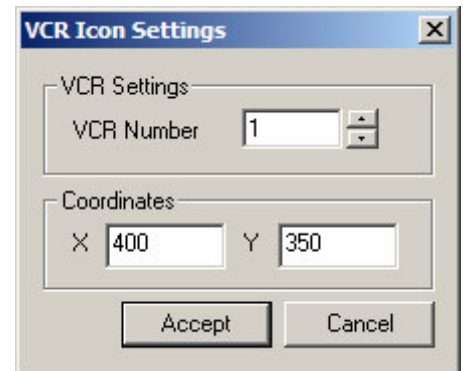
VCR

VCR number

- Local VCR number – VCR can be configured on EVCR configuration screen.

Coordinates

- X and Y coordinates of the icon



The VCR Icon Settings dialog box contains two sections. The 'VCR Settings' section has a 'VCR Number' field with a value of 1 and up/down arrow buttons. The 'Coordinates' section has 'X' and 'Y' fields with values 400 and 350 respectively, and up/down arrow buttons. At the bottom are 'Accept' and 'Cancel' buttons.

Multiplexer

MUX number

- Local Multiplexer number

Matrix input

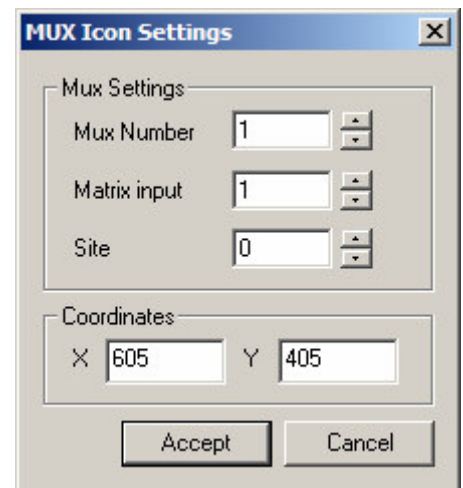
- The matrix input to which the MUX output is connected

Site

- Site number

Coordinates

- X and Y coordinates of the icon



The MUX Icon Settings dialog box contains two sections. The 'Mux Settings' section has 'Mux Number' (1), 'Matrix input' (1), and 'Site' (0) fields, each with up/down arrow buttons. The 'Coordinates' section has 'X' (605) and 'Y' (405) fields with up/down arrow buttons. At the bottom are 'Accept' and 'Cancel' buttons.

Hotspots

Text

- Text displayed in hotspot list

Index

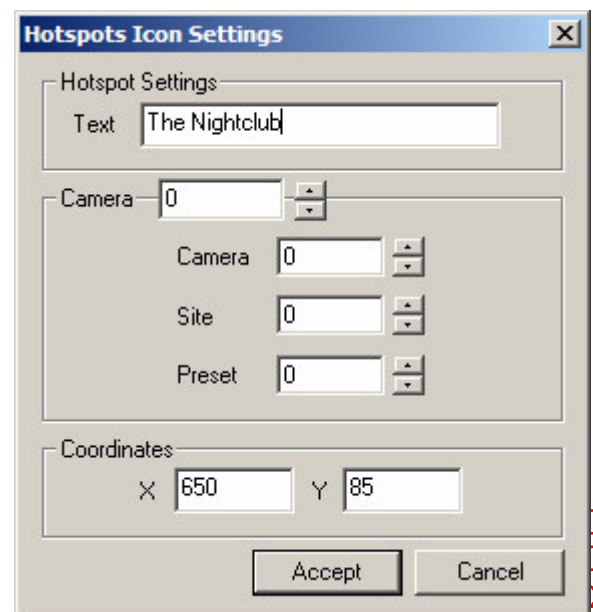
- Multiple camera / preset combinations can be programmed

Camera

- Camera number
- Site number
- Preset number (0 is home)

Coordinates

- X and Y coordinates of the icon



The Hotspots Icon Settings dialog box contains two sections. The 'Hotspot Settings' section has a 'Text' field with the value 'The Nightclub'. The 'Camera' section has a 'Camera' field (0) and up/down arrow buttons, and sub-fields for 'Camera' (0), 'Site' (0), and 'Preset' (0), each with up/down arrow buttons. The 'Coordinates' section has 'X' (650) and 'Y' (85) fields with up/down arrow buttons. At the bottom are 'Accept' and 'Cancel' buttons.

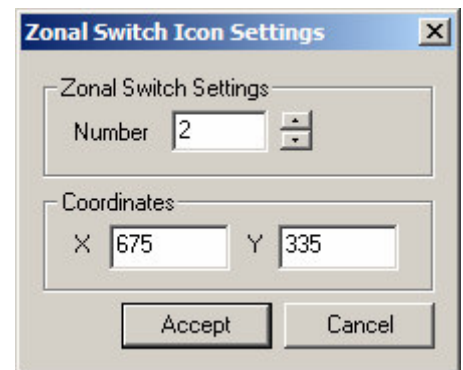
Zonal Switch

Zonal Switch Number

- The zonal switch number – operation of which is configured in the zonal sequence setup menu

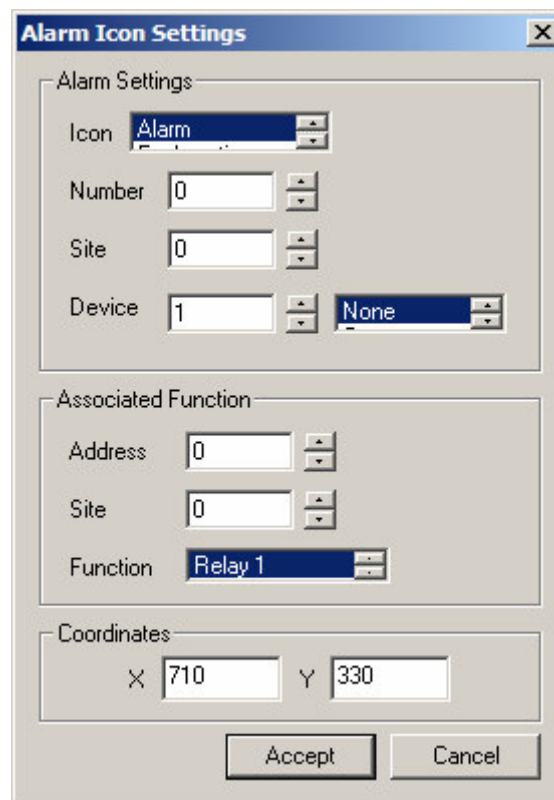
Coordinates

- X and Y coordinates of the icon



The 'Zonal Switch Icon Settings' dialog box contains two sections. The 'Zonal Switch Settings' section has a 'Number' field with the value '2'. The 'Coordinates' section has 'X' and 'Y' fields with values '675' and '335' respectively. At the bottom are 'Accept' and 'Cancel' buttons.

Alarm icons



The 'Alarm Icon Settings' dialog box is divided into three sections. The 'Alarm Settings' section includes an 'Icon' dropdown set to 'Alarm', and 'Number', 'Site', and 'Device' fields with values '0', '0', and '1' respectively. The 'Associated Function' section includes 'Address' and 'Site' fields with values '0' and '0', and a 'Function' dropdown set to 'Relay 1'. The 'Coordinates' section has 'X' and 'Y' fields with values '710' and '330'. 'Accept' and 'Cancel' buttons are at the bottom.

Icon

- A range of selectable alarm icons

Associated alarm

- Details of the alarm to be associated with this icon
- Number, Site, Device – see ZSC-1000 manual for further information

Associated function

- Function to be performed when icon selected.
- Details as per Aux Function ZVS-IOM8 setup

Coordinates

- X and Y coordinates of the icon

Toolbar



The Fusion toolbar (shown above) can be configured in order to disable functionality from a workstation. This disabling will apply to all operators of this workstation other than operators with an engineer or higher access level.

As an example, suppose that the recording and playback facilities need to be disabled on a particular workstation. This can be achieved by making the following changes to the Windows Registry settings on that workstation.

```
HKEY_CURRENT_USER\Software\Meyertech\Fusion\split2\ButtonBar\VCRButton=0  
HKEY_CURRENT_USER\Software\Meyertech\Fusion\split2\ButtonBar\RecEventButton=0  
HKEY_CURRENT_USER\Software\Meyertech\Fusion\split2\ButtonBar\ReplayButton=0
```

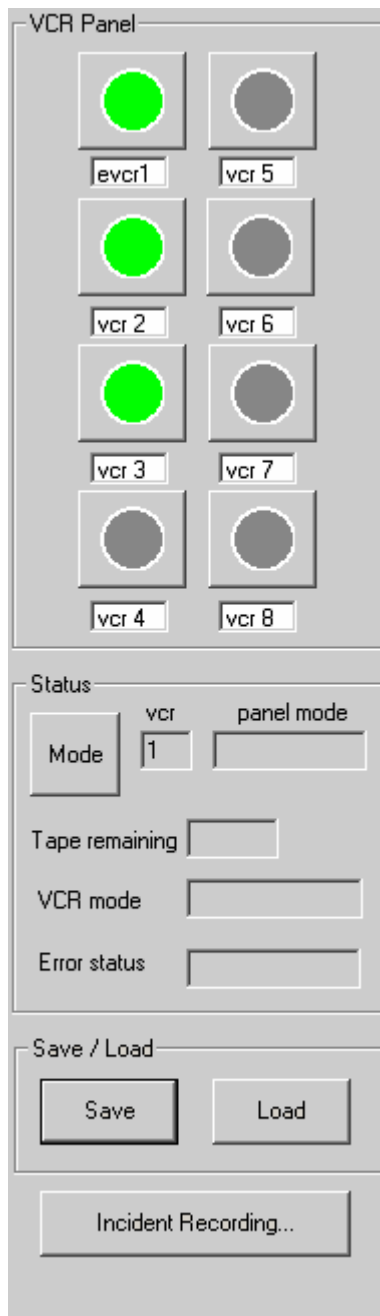
Note that making changes to the Windows Registry must be done with care, since a workstation can be made inoperable if a vital system setting is corrupted.

When Fusion is next started the toolbar will appear as shown below, where the buttons showing the dark grey silhouettes are now disabled and cannot be clicked.



Event VCRs

Selecting the VCR icon on the toolbar brings up the EVCR control menu.



The EVCR buttons relate to VCRs 1 to 8, (numbered in two columns – left hand column 1 to 4 and right hand column 5 to 8)

Each Event Recorder (EVCR) can be given a descriptive name.

By pressing the EVCR button a configuration dialog box is displayed.

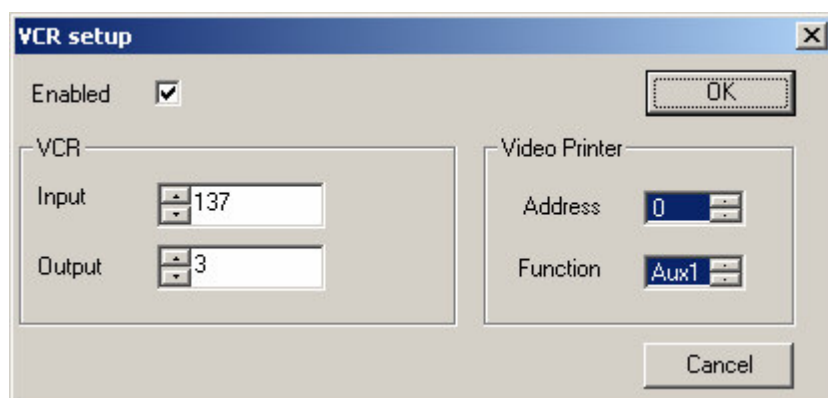
Once changes have been made the save button should be pressed. Failure to save before changing to a different configuration menu will lose any changes made.

VCR Setup

- Enabled – control can be enabled / disabled
- Input – the matrix input number that the VCR output goes to
- Output – the matrix output number that is fed into the VCR

Video Printer

- ZVR-110 setup that is used to drive a video printer



Pressing the “Incident Recording...” button displays the dialog box shown below. This is used to enable the automatic logging of camera switches made while recording an incident.



Click the checkbox to enable camera logging, and use the browse button to select the database file that serves as the link between Fusion and an external incident reporting application such as Fusion Incident or i-Comply V-TAS.

DVR Playback

Selecting the VCR icon on the toolbar with a second click brings up the DVR playback configuration screen. On this screen it is possible to map each camera in the system to a DVR. This mapping can be used to provide seamless camera selection in playback mode in Fusion using the Fusion Maps.

The screenshot shows a software window for configuring DVR playback. It is divided into four main sections:

- DVR Camera Map:** Contains two dropdown menus for 'Camera Number' and 'Camera Site', both set to '0'. Below them is a button labeled 'Find Camera's DVR'. Further down are two more dropdown menus for 'DVR Number' and 'DVR Input', also set to '0'.
- DVR Camera Map Action:** Contains two buttons: 'Accept map' (with a green checkmark icon) and 'Delete map' (with a red X icon).
- DVR Matrix Input:** Contains two dropdown menus for 'DVR Number' and 'Site Number', both set to '0'. Below them is a button labeled 'Find DVR Matrix Input'. Further down is a dropdown menu for 'Matrix Input', set to '0'.
- DVR Matrix Input Action:** Contains two buttons: 'Accept input' (with a green checkmark icon) and 'Delete input' (with a red X icon).

The DVR playback configuration is split up into two different parts. The first part of the configuration is the DVR camera map.

DVR Camera Map

- In this section specify the camera number and the site number of the camera that needs to be configured.
- Clicking the “Find Camera DVR’s” button after these have been selected will return a DVR number and DVR Input number for the specified camera. If the camera isn’t yet configured then these return as zeros.
- Once the DVR number and the DVR Input number on the specified DVR have been selected, click the Accept Map button to add the configuration to Fusion or the Delete Map button to remove this configuration.

DVR Matrix Input

- Once each camera has been correctly configured, each DVR must be given a final piece of configuration, the matrix input that it connects to. First select the DVR number and the site of the DVR.
- Clicking the “Find DVR Matrix Input” button after these have been selected will return the Matrix Input number for the specified DVR. If the DVR isn’t configured the return value will be a zero.
- Once the Matrix Input number has been selected, click the Accept Input button to add the configuration to Fusion or the Delete Input button to remove this configuration.

Camera control

Selecting the Camera control (PTZF) icon on the toolbar brings up the camera control menu.

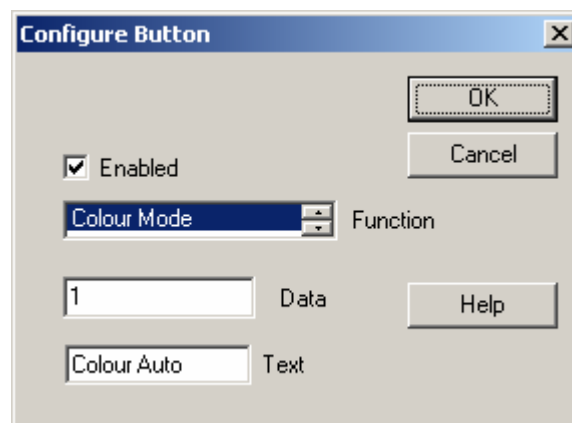
From this menu the user buttons can be configured.

Select any of the buttons to configure its operation and description.



Did You Know !

A camera can controlled from Fusion Edit by using the control functions – pan and tilt ball and the zoom and focus sliders.



Each button can be configured:

- Enabled / disabled – if disabled the button is invisible
- Function – a range of telemetry operations with an optional data field – see table below
- Data field – data for the selected function, If data is set to “-1” then the operator is prompted for a number on selecting this button within FUSION.
- Text – the text that will be shown on the button.

Supported Functions

Function	Description	Data
Preset	Recall a camera preset	Preset number
Patrol	Start a patrol	Patrol number
Mimic	Start a mimic patrol	Mimic number
Wiper	Wiper control	N/A (toggle on/off)
Aux1	Aux1 control	N/A (toggle on/off)
Lamp	Lamp control	N/A (toggle on/off)
Iris	Iris mode	N/A (toggle auto/manual)
Aux2	Aux2	N/A (momentary)
Aux3	(not yet available)	
Wash	Wash control	N/A (momentary)
Store Preset	Store a camera preset	Preset number
Camera Mode	Switch between camera modes.	As supported by camera
B/W Philips	Switch between auto and mono on a Philips camera	N/A (toggle auto/mono)
Auto Focus	Auto focus mode control	N/A (toggle auto/manual)
Colour Mode	Switch between camera colour modes (if supported by camera)	0=hold, 1=auto, 2=undefined,3=mono,4=on

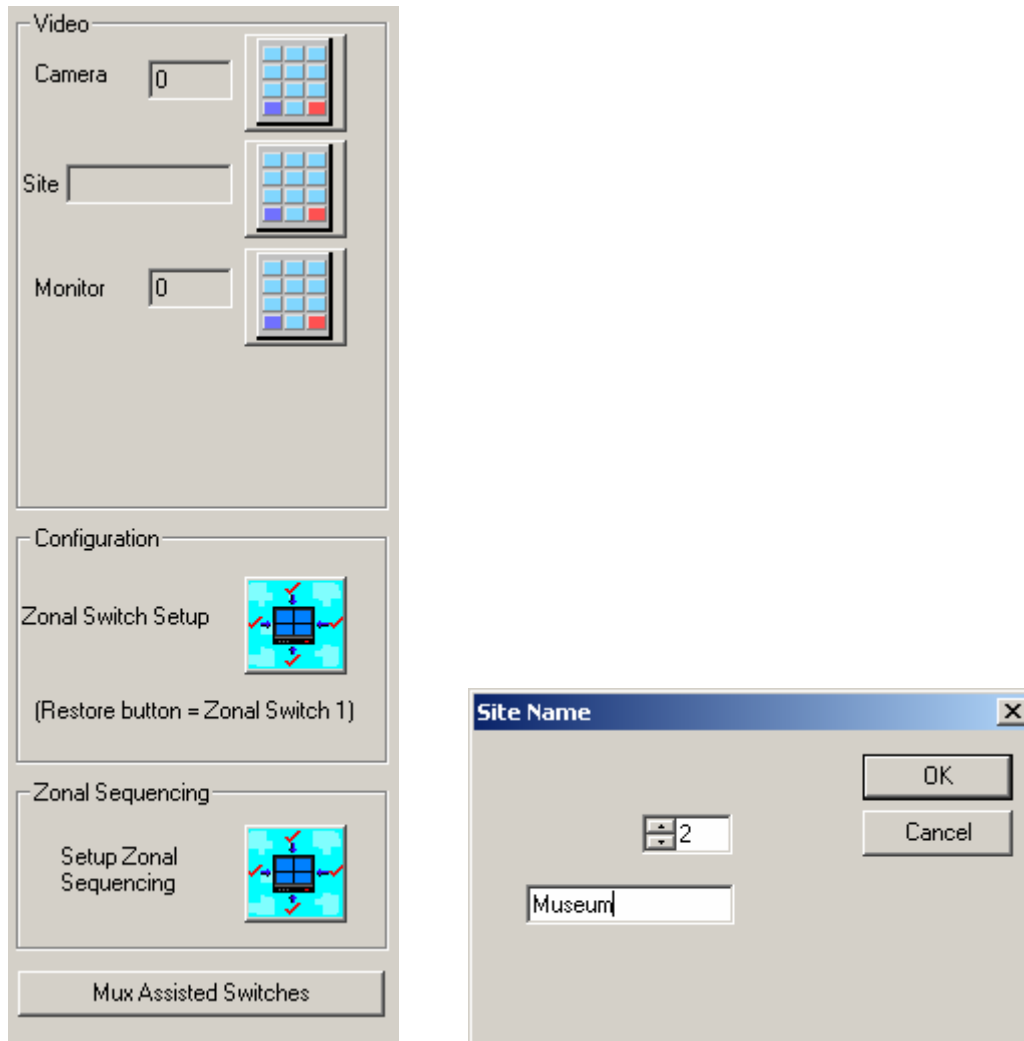
Classic Setup

Selecting the Classic icon on the toolbar brings up the classic control menu.

From this menu site names and zonal switches can be configured.

Site names

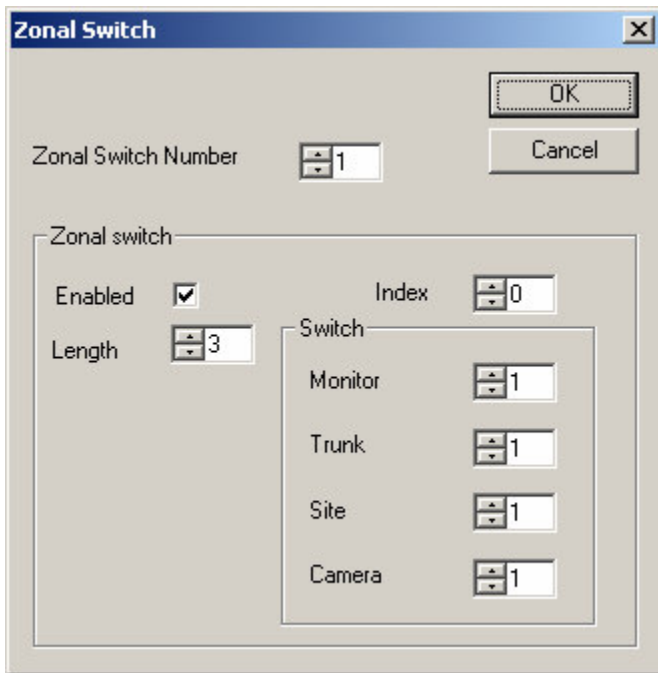
FUSION will display a site name as well as a site number when a camera is selected from a map. To setup the site names select the Site button



A dialog window will pop up allowing a name to be entered against each site number (see above)

Zonal Switches

Zonal switches can be configured from the window shown below:



For every zonal switch the following can be configured:

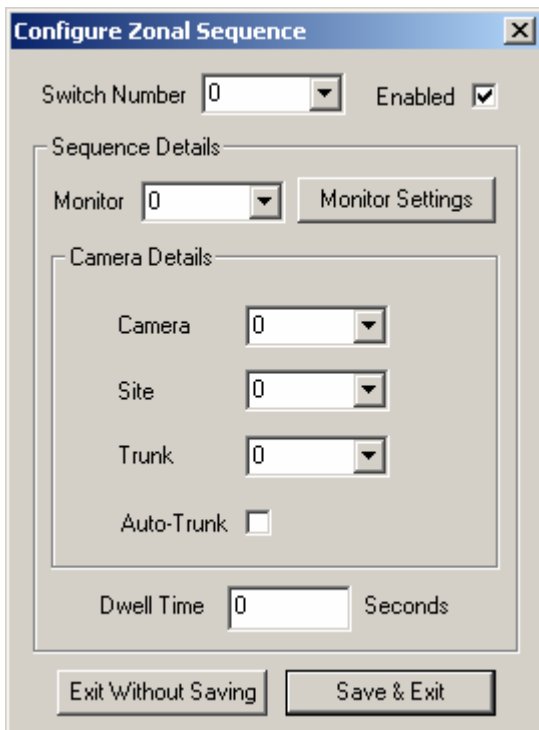
- Enabled / disabled
- Length (number of switches)

For each individual switch:

- Monitor
- Trunk and site for remote cameras
- Camera number

Zonal Sequencing

Zonal Sequences can be configured from the window shown below:



Every zonal sequence can be configured:

- To have up to 80 individual zonal switches.
- To dwell for a set period on each switch in the sequence.
- To use user-specified / auto trunk

For every zonal switch the following can be configured:

- Enabled / disabled
- Monitor mapping

For each individual monitor:

- Camera number
- Site (for remote cameras)
- Trunk (if auto trunk not selected)



Monitor Info [X]

Monitor ID: 0

Use Monitor

Monitor Number: 1

Enabled: ☒

Exit Without Saving Save & Exit

From the 'Monitor Settings' button on the zonal sequence setup dialog it is possible to configure:

- The exact monitor numbers that will be mapped against the individual monitor ID's (0-7).
- Enabled / Disabled

Mux Assisted Switches

In certain special cases, a camera switch needs the assistance of a full-screen multiplexer input selection in order to complete the required video routing.

The “Mux Assisted Switches” button displays the dialog shown below, which allows such camera switches to be configured.

Site	Camera	Mux	Input
55	1	1	4
55	2	2	1
55	3	2	5
55	4	2	2
55	5	2	4
55	6	1	2
55	7	1	3
55	8	1	5
55	9	2	3
55	22	1	1

Enter the relevant site and camera numbers into the table, together with their associated multiplexer and multiplexer input numbers.

The camera switches can be entered in any order, since they will be automatically sorted into site and camera order the next time the dialog is opened.

The “Delete Rows” button can be used to delete any table rows currently selected.

When the operator subsequently uses FUSION to explicitly select one of the cameras in this table, it will also automatically make the associated full-screen multiplexer input selection.

Alarms

Selecting the Alarm Stack icon on the toolbar brings up the alarm control menu.

From this menu the alarm text can be entered. The alarm text is displayed whenever the associated alarm is seen by FUSION.

Alarm Info

Number: 0 Device: None Site: 0

Use <Ctrl><Enter> for new line

Action plan number: 0

Action

Accept text Delete text

Import Alarm Data From CSV

Edit Action Plans

Edit Alarm Sites

Actions

Alarm Stack

Its Number, Type, Device type and site define each alarm. A detailed description of these can be found in the ZSC-1000 user manual.

To enter or edit alarm text, select the correct definition of the alarm then press the Select button.

On pressing the Select button, FUSION EDIT searches for any matching alarm text. If found it is displayed in the text box. Otherwise the message "undefined" is displayed.

Text can now be added or edited in the text box – on completion press the "Accept text" button. Failure to do so will lose your configuration.

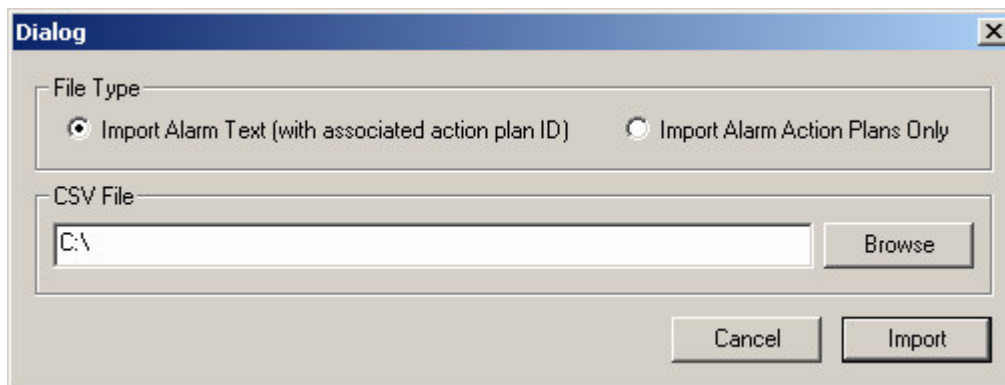
Pressing the "Delete text" button will remove this alarm text entry.

FUSION incorporates a number of default alarm text messages:

Type	Type Number	Alarm Number	Default text
Camera	All	1	Tamper
Camera	All	2	Contact 1
Camera	All	3	Contact 2
Camera	All	4	Contact 3
Camera	All	5	Contact 4
Camera	All	6	Contact 5
Camera	All	7	Contact 6
Camera	All	8	No Video
Camera	All	9	No Comms
Peripheral	64 to 80	1	Tape fault Ch1
Peripheral	64 to 80	2	Tape fault Ch2
Peripheral	64 to 80	3	Tape fault Ch3
Peripheral	64 to 80	4	Tape end Ch1
Peripheral	64 to 80	5	Tape end Ch2
Peripheral	64 to 80	6	Tape end Ch3
Peripheral	64 to 80	7	VCR fail Ch1
Peripheral	64 to 80	8	VCR fail Ch2
Peripheral	64 to 80	9	VCR fail Ch3
Peripheral	100	All	Matrix alarm
Peripheral	101	All	Remote alarm
Peripheral	1 to 32	All	Dial-in alarm
Panel	5	1	Fail to set
Panel	5	2	Fail to reset
Panel	1 to 4	All	Zone
Panel	100	All	Matrix alarm

Importing Alarm Data

It is possible to import data into FusionEdit by using the “Import Data From CSV File” button. Once selected, there are two types of data files that can be imported.



It is possible to either import alarm text entries (these are described in the previous section) or alarm action plan information. The alarm action plans provide the operator with a list of tasks that must be performed before an alarm can be cleared from the system.

The alarm action plan information will hold the following:

ID	Plan Name	Action Name	Position	Action Type	Attempts	Min Attempt Gap
1	Fire	Call Fire Brigade	0	0	0	0
1	Fire	Call Key holder	1	0	0	0
2	Personal Attack	Call Police	0	0	0	0

The “ID” specifies the number of the action plan that this particular action belongs to.

The “Plan Name” specifies the name of the action plan that the action belongs to.

The “Action Name” specifies the name of the individual action and represents the text that will be displayed within Fusion.

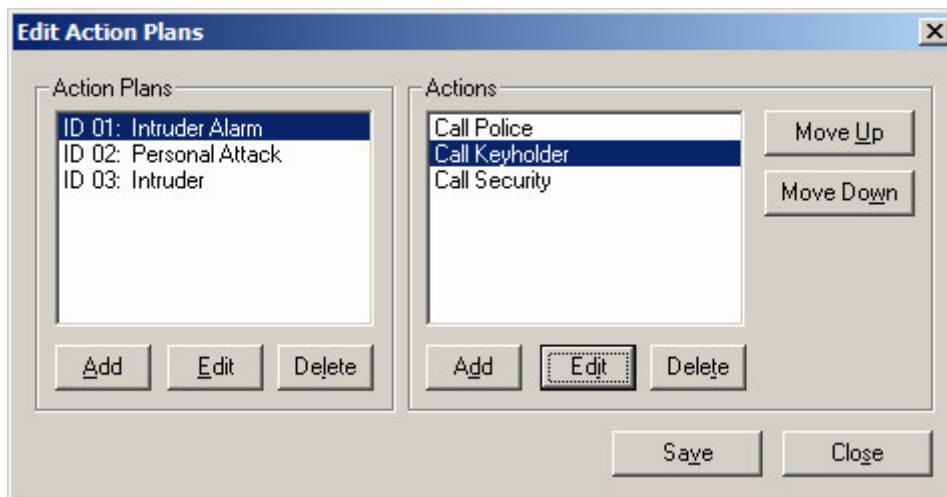
The “Position” column specifies the position of the action within the plan. 0 represents the first action to be completed per plan, 1 the next and so on.

The “Action Type”, “Attempts” and “Min Attempt Gap” columns are currently not utilized.

The template Excel files that are used in this process are available on the FusionEdit installation disc or alternatively, from Meyertech on request. For each of the template files the information must be filled out and then saved as a *.csv file. Once the *.csv file has been created click on the “Import Data From CSV File” button on FusionEdit and follow instructions to locate the *.csv file. Note: importing a *.csv file will replace all existing data.

Editing Action Plans

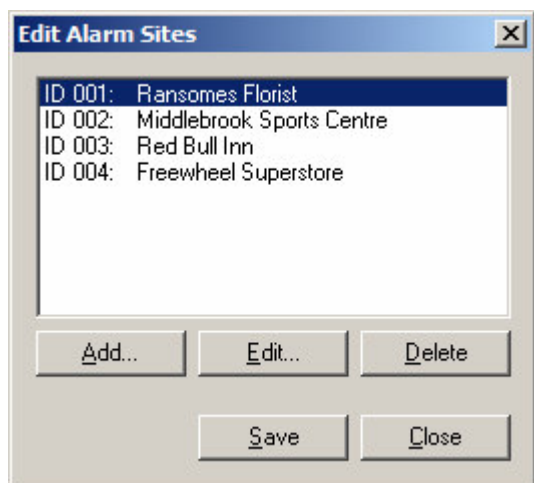
It is also possible to create and edit action plans by clicking the “Edit Actions Plans” button on the alarms control menu to activate the dialog shown below.



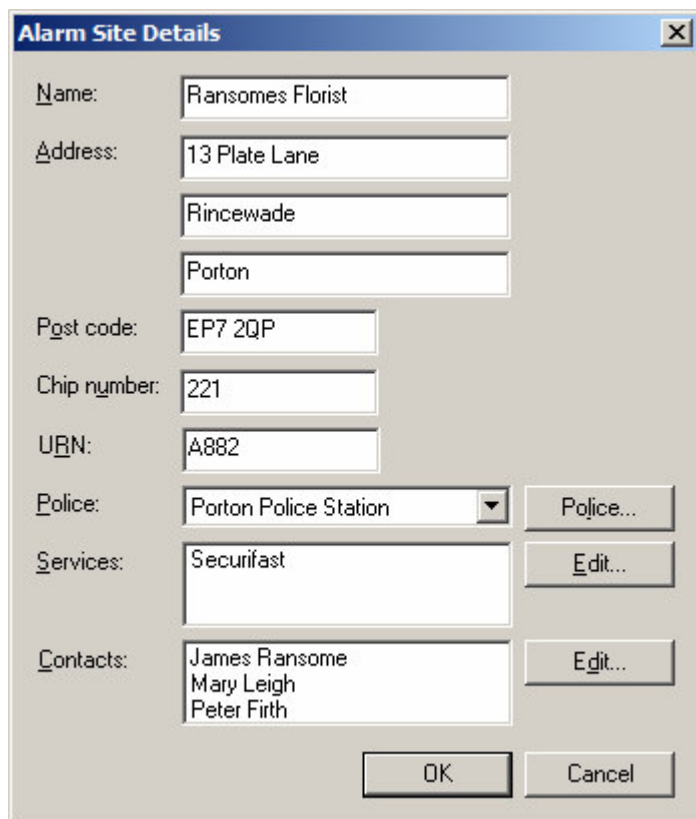
When an action plan is selected in the list on the left, its associated actions are shown on the right. For both lists, the “Add” button displays a dialog to receive details of the new entry, “Edit” displays the same dialog to allow the details for the selected entry to be changed, and “Delete” removes the selected entry from the list. The “Move Up” and “Move Down” buttons change the selected action’s position in the list.

Editing Alarm Site Details

The “Edit Alarm Sites” button on the alarms control menu activates the dialog shown below to allow the various site details to be created and edited.



The “Add...” button displays a dialog to receive details for a new site. “Edit...” displays the same dialog, allowing the details for the selected site to be changed, and “Delete” removes the selected site from the list.



Alarm Site Details

Name: Ransomes Florist

Address: 13 Plate Lane
Rincewade
Porton

Post code: EP7 2QP

Chip number: 221

URN: A882

Police: Porton Police Station [v] Police...

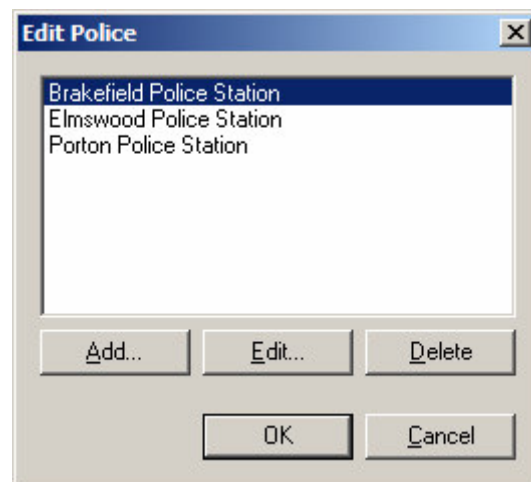
Services: Securifast Edit...

Contacts: James Ransome
Mary Leigh
Peter Firth Edit...

OK Cancel

The dialog on left allows the site details to be edited.

Clicking the “Police...” button displays the dialog below, showing the police contact details from the associated drop-down list box. Again, the add, edit and delete buttons can be used to modify the list and its item details.



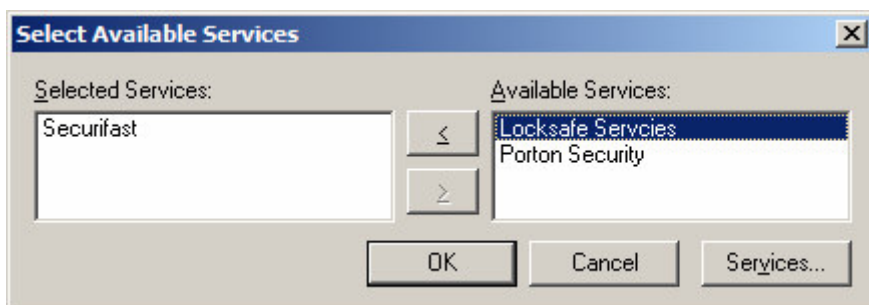
Edit Police

Brakefield Police Station
Elmswood Police Station
Porton Police Station

Add... Edit... Delete

OK Cancel

The “Edit...” buttons next to the services and contacts fields allow security services and contacts for this site to be selected. They each activate similar dialogs as shown below.



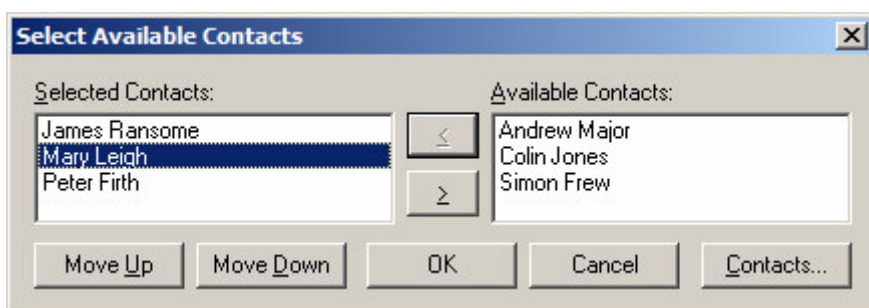
Select Available Services

Selected Services: Securifast

Available Services: Locksafe Services
Porton Security

≤ ≥

OK Cancel Services...



Select Available Contacts

Selected Contacts: James Ransome
Mary Leigh
Peter Firth

Available Contacts: Andrew Major
Colin Jones
Simon Frew

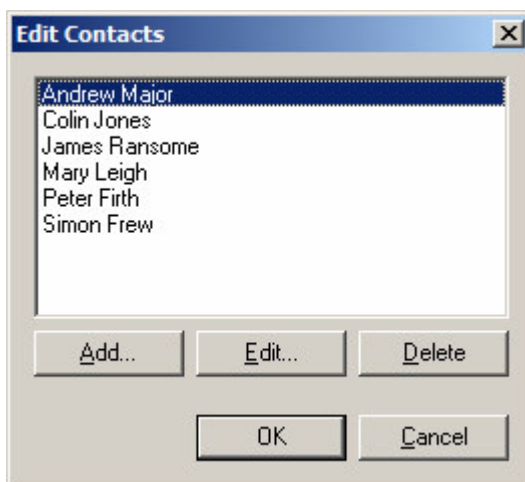
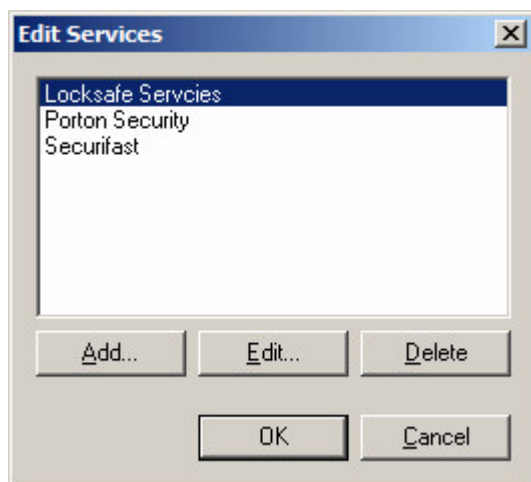
≤ ≥

Move Up Move Down OK Cancel Contacts...

The entries in the selected items lists on the left are the ones that will appear in the relevant fields of the main alarm site details dialog. The available items lists on the right show other services and contacts whose details have been entered into the system. Entries can be moved between the two lists by simply selecting item and then clicking the “<” or “>” button to move it in the specified direction.

The selected contact can be moved up or down in the list using the “Move Up” and “Move Down” buttons.

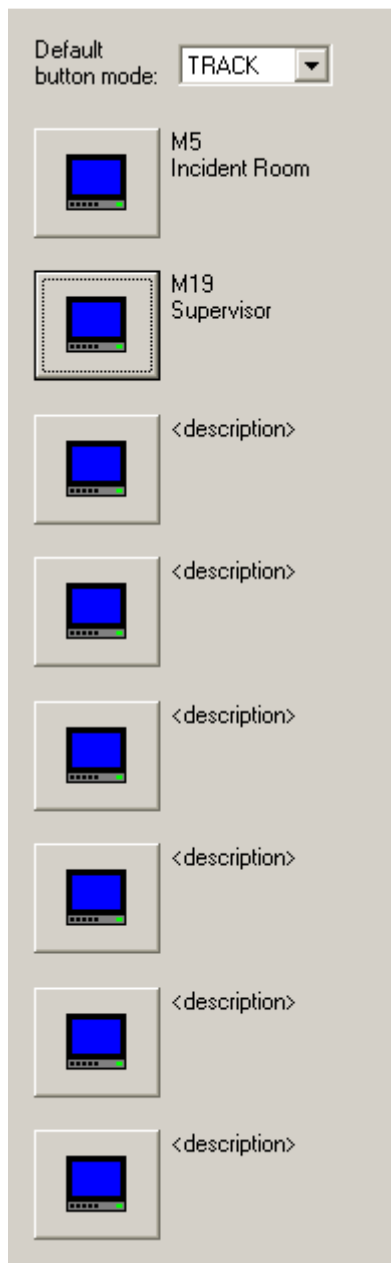
Service and contact details are edited using the “Services...” and “Contacts...” buttons respectively. They activate the dialogs shown below, which used in exactly the same way as those described earlier.



Configurable Monitor Buttons

Selecting the Relay Monitor icon on the toolbar displays the configurable monitor buttons settings.

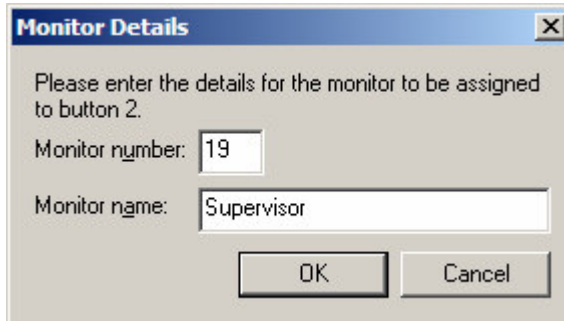
These settings allow the monitor number and name to be specified for each of the displayed monitor buttons. The initial operating mode of the monitor buttons can also be chosen.



The default button mode can be set to:

- <disabled>** The buttons will not be displayed, and the Relay Monitor button retains its original function of relaying the current monitor image to a single fixed monitor.
- SELECT** The buttons simply select their assigned monitor as the current monitor.
- COPY** The buttons copy the current monitor image to their assigned monitor in the same way as the original Relay Monitor button.
- TRACK** The buttons first copy the current monitor image to their assigned monitor, and subsequently repeat the copy each time a new camera is selected on the original monitor.

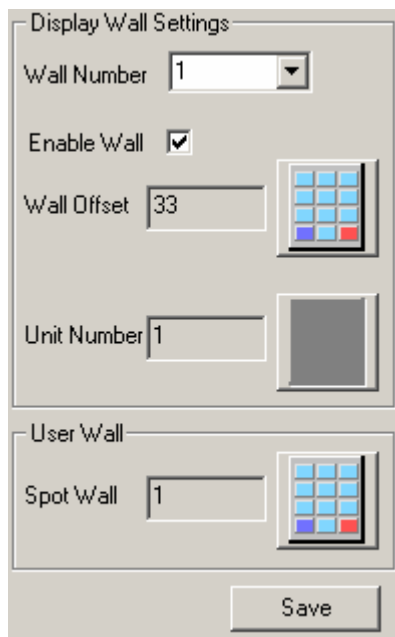
A monitor number and name is assigned to a specific button by clicking the button and then entering the relevant details into the resulting dialog box shown below.



Digital Display Wall

Selecting the Display Wall icon on the toolbar brings up the display wall control menu.

From this menu the various extended display walls on a system can be configured and the workstations “spot wall” can also be specified.



For every digital display wall that should be added to the system the wall number must be selected and the “Enable Wall” check box must be checked.

Once the wall has been enabled it is necessary to provide an offset for the wall. This offset is the monitor offset for the wall. The monitors will begin numbering from the offset provided. Note:- It is important that the offset is not zero. Monitor zero is not supported.

The unit number shows the ID of the digital display wall. This value cannot be modified.

A spot wall (default wall) can also be specified for each workstation (However this involves extra configuration for each workstation). If there is more than one active digital display wall in a control room each workstation can have a preference for which wall they use as default. The wall number specified here will be the initial wall that will be controlled on loading Fusion. The user will also be provided with a shortcut button to go straight to this digital display wall.

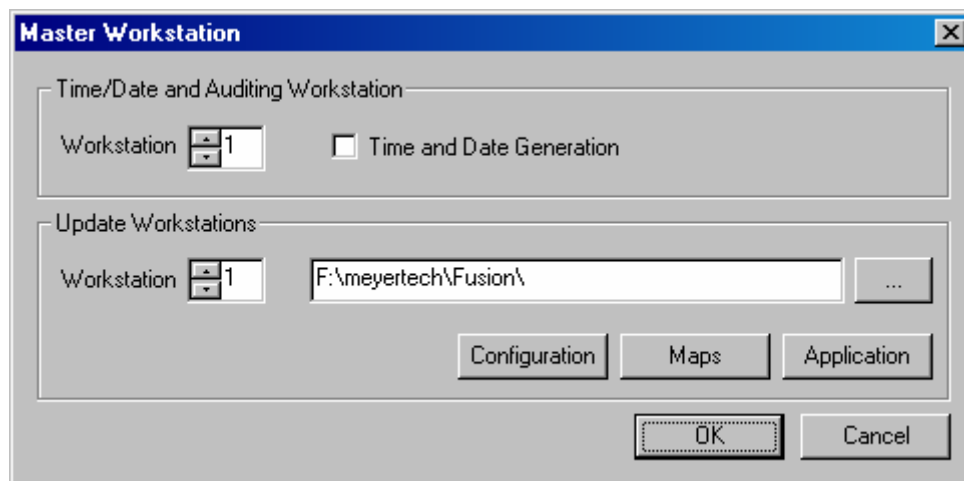
To ensure that Fusion supports the digital display wall the respective registry entry must also be added. See the registry settings section of this document for more details.

Master Workstation

For auditing purposes within a Fusion system it is necessary to specify a master workstation. This workstation will log all the system wide events that occur as well as those local actions that all workstations log.

As well as performing this task the master workstation can also act as a time source.

To specify the master workstation select the MASTER WS icon from the toolbar. The following dialog box will be displayed.



Within the **Time/Date and Auditing Workstation** section the WS number of the required master workstation is entered. By ticking the **Time and Date Generation** box this workstation will also generate a time synchronisation message every hour.

Unless the workstation itself is synchronised from an external accurate source, then this is useful only for maintaining a consistent time across the CCTV system. The accuracy of PC time keeping is not considered high.

The **Update Workstations** section is covered in the **Maintenance\Backups** section of this manual.

Airlock Operation

The airlock operation screen in Fusion edit is accessible through the door icon on the Fusion Edit toolbar. There are eight configurable buttons. For each of the buttons it is possible to specify the following:

- The text that will appear associated with the button.
- Whether the button and associated text should be enabled.
- The relay command that should be triggered (Relays 1-24).
- The type of relay to be triggered. If the momentary option is selected then the button will fire a relay quickly followed by another relay to revert the relay back to its original state.
- The default active state of the relay. Specifies if the Open state is achieved by an ON or an OFF relay command.

The final section allows the three existing airlock control buttons and intercom call answer button to be displayed.

The screenshot shows a configuration window for an airlock operation. At the top, there is a 'Door' label followed by a text box containing '1' and a small up/down arrow icon. Below this is a 'Static Box Text' label followed by a text box containing 'Extra 1'. Underneath are four settings, each with a label and a checkbox: 'Static box enabled' (checked), 'Relay Number' (a dropdown menu showing 'Relay 1'), 'Momentary Relay Command' (checked), and 'Default Active State' (checked). At the bottom of the window is a 'Pre-defined Buttons' section with two checkboxes: 'Display pre-defined buttons' (checked) and 'Show "Answer Call" button' (checked). A 'Save' button is located at the bottom right of the window.

Registry Settings

A number of Fusion Workstation parameters are stored within the Windows Registry. Editing of these must only be done by a competent person.

HKEY_CURRENT_USER\Software\Meyertech\Fusion\split2

Registry Key	Description	Default setting
Communications\port	Communications port	1
Communications\baud	Communications baud rate	9600
Communications\mode	The communications mode. 0 specifies RS232 and 1 specifies IP communications.	0
Settings\CameraNumbers	Enable displaying of camera number	0 (off)
Settings\AlarmPlan	Enable enforcement of alarm plan	0 (off)
Settings\AutoRequest	Enable auto request of camera control on spot monitor	0 (off)
Settings\AutoAlarmFn	Enable auto alarm functions	0 (off)
Workstation\number	Workstation number	1
Workstation\inset	Enable a fitted inset video card. 1 = normal mode, 2 = auto mode In automatic mode the inset video window is automatically displayed full-size when a camera is selected. The window can then be closed by clicking on it.	0 (off)
Workstation\IgnoreDirectShow	Ignore the DirectShow drivers if they are installed, and use Video-for-Windows to display the inset video.	0 (use DShow)
Workstation\DirectShowStream	Operations used to start and stop the DirectShow inset video stream. 0 = Start, but don't stop 1 = Start and stop using stream commands 2 = Start and stop by building and destroying the stream (this may be slower, but more reliable for certain drivers.)	0
Workstation\framerate	Frame rate for the inset video card to operate at	40
Workstation\mute	Disable all sounds	1 (on)
Workstation\DisplayWall	Enable extended display wall support	0 (off)
Workstation\ClearOnLogOff	Enable clearing down of the spot monitor when logging-off	0 (off)
Timers\NoActionTimeout	After sending an extended alarm panel set / unset / partset this is the amount of time in milliseconds that must elapse before another panel action may be performed.	12000
Timers\RequestTimeout	The extended alarm panel status request timeout	6000

FUSION

IP\Address	The IP Address of the attached IP peripheral	127.0.0.1
IP\Port	The port to which to connect	1028
ButtonBar\<button name>	Disable selected toolbar buttons	1 (on)
Communications\Standalone Keyboard\Port	The communications port to use for the directly connected ZVK-66 keyboard. <i>Note that port 1 cannot be used for the keyboard.</i> Refer to Appendix B for configuration details of the EasySync PCI200Li RS485 card needed to communicate with the ZVK-66.	0 (No Keyboard)

Servicing and Support

Servicing

See your FUSION manual.

Returns Procedure

See your FUSION manual

Support

Meyertech offer comprehensive levels of support during the product's warranty period. Our support team will be happy to help with any problem you may experience relating to the installation or operation of FUSION or FUSION EDIT

1. Telephone support (+44(0)161 628 8406), which is available during normal office hours 9AM – 5PM Monday to Friday excluding Bank holidays. This support is free of charge.
2. Email support. Available 24 hours a day. Our normal response to emails is next working day. This support is free of charge. support@meyertech.co.uk
3. By Facsimile (+44(0)161 628 9811). Available 24 hours a day. Our normal response to facsimiles is next working day. This support is free of charge.
4. Site visits. Subject to availability, our engineers are available to attend site to assess and help with particular system problems firsthand. This service is chargeable. Please contact our Support department on +44(0)161 628 8406 for further details and availability.

Meyertech offer Extended Support Contracts on all their software products. Please contact our Sales department on 0161 628 8406 to discuss your requirements or visit our website www.meyertech.co.uk

**Meyertech Limited
Office Block One
Southlink Business Park
Oldham
OL4 1DE**

**Tel: +44 (0) 161 628 8406
Fax: +44 (0) 161 628 9811**



Meyertech Limited is a member of the CCTV User Group.

Warranty

Please refer to Meyertech Limited 'Terms & Conditions of Sale of Goods & Services' for interpretation.

1. If the Buyer establishes to the Seller's reasonable satisfaction that there is a defect in the materials or workmanship of the Goods manufactured, then the Seller shall at its option, at its sole discretion and within a reasonable time,
 - a. arrange for the repair or making good such defect or failure in such Goods free of charge to the Buyer (including all costs of transportation of any Goods or materials to and from the Buyer for that purpose),
 - b. replace such Goods with Goods which are in all respects in accordance with the Contract, or

subject, in every case, to the remaining provisions of this Condition 1 provided that the liability of the Seller under this Condition 1 shall in no event exceed the purchase price of such Goods and performance of any one of the above options shall constitute an entire discharge of the Seller's liability under this warranty.

2. Condition 1 shall not apply unless the Buyer:
 - a. notifies the Seller in writing of the alleged defect within 12 (twelve) months from delivery or such other period or periods as may be agreed in writing between the Seller and the Buyer, and
 - b. allows the Seller a reasonable opportunity to inspect the relevant Goods.
3. For the avoidance of doubt, the Seller shall be under no liability under the warranty in Condition 1 above:
 - a. where such defects arise from any drawing, design or specification supplied by the Buyer; or
 - b. where such defects arise from fair wear and tear, wilful damage, or negligence of a party other than the Seller (or its employees or authorised personnel), abnormal working conditions, failure to follow the Seller's instructions (whether oral or in writing), misuse or alteration or repair of the Goods without the Seller's approval; or
 - c. where such defects arise in parts, materials or equipment which have not been manufactured or designed by the Seller but have been purchased at the Buyer's request by the Seller from the Buyer's designer and manufacturer or from some other third party (the "**Third Party Supplier**").
 - d. if the total price of the Goods has not been paid by the due date for payment
 - e. in respect of any type of defect, damage or wear specifically excluded by the Seller by notice in writing; or
 - f. if the Buyer makes any further use of the Goods after giving notice in accordance with Clause 1
4. Any repaired or replaced Goods shall be redelivered to the Buyer free of charge to the original point of delivery but otherwise in accordance with and subject to these Conditions.
5. Alternatively to Condition 1 the Seller shall be entitled at its absolute discretion on return of the defective Goods to the Seller (at the Seller's request) to refund the price of the defective Goods in the event that such price shall already have been paid by the Buyer to the Seller, or, if such price has not been paid, to relieve the

Buyer of all obligation to pay the sum by the issue of a credit note in favour of the Buyer in the amount of such price.

6. In respect of all Goods supplied to the Seller by a Third Party Supplier the Seller will on request pass on to the Buyer (in so far as reasonably possible) the benefit of any warranty given to the Seller by such Third Party Supplier and will (on request) supply to the Buyer details of the terms and conditions of such warranty and copies of any relevant product information sheets, technical data sheets or product leaflets issued by such Third Party Supplier and the Buyer shall be solely responsible to the entire exclusion of the Seller for complying with the same.
7. For the purposes of Condition 1 references to Goods shall be deemed to exclude software.
8. The Buyer acknowledges that software in general is not error-free and agrees that the existence of such errors in the Software Programs shall not constitute a breach of this Contract.
9. In the event that the Buyer discovers a material error which results in the Programmed Products not performing substantially in accordance with the Functional Specification, or the Licensed Programs not performing substantially in accordance with the relevant Program Documentation and notifies the Seller of the error within 90 days from the date of the Seller making available the respective software to the Buyer (the **`warranty period'**) the Seller shall at its sole option either refund the price which the Buyer has paid to the Seller (or if such price has not been paid, relieve the Buyer of all obligations to pay the sum) in respect of the respective software or use all reasonable endeavours to correct by patch or new release (at its option) that part of the software which does not so comply provided that such non-compliance has not been caused by any modification, variation or addition to the software not performed by the Seller or caused by its incorrect use, abuse or corruption of the software by use of the software with other software or on equipment with which it is incompatible,
10. To the extent permitted by English law, the Seller disclaims all other warranties, with respect to the software which it provides pursuant to the Contract, either express or implied, including but not limited to any implied warranties of satisfactory quality or fitness for any particular purpose.
11. The Buyer is solely responsible for various scanning the software that it receives from the Seller pursuant to the Contract.
12. The Seller warrants that it will use reasonable skill and care in providing the Services to the buyer

Minimum System Requirements

The minimum recommended PC hardware to run FUSION and FUSION EDIT is dictated by the OS (Operating System) you are running I.E. that recommended by Microsoft for running a particular OS. FUSION also requires:

1. One free Serial RS232 port (optional for FUSION EDIT)
2. SVGA 1024 x 768 colour monitor

Recommended operating systems for FUSION and FUSION EDIT are:

1. Microsoft Windows 2000
2. Microsoft Windows XP (default new installation unless specified)

Maintenance

FUSION and FUSION EDIT are designed to operate without any regular maintenance. However, the following procedures are recommended to ensure optimal performance and to avoid any potential data loss due to computer problems.

After Installation

1. Ensure the directory **\meyertech\fusion\maps** is backed up.
2. Ensure directory **\meyertech\fusion\equipment** is backed up.

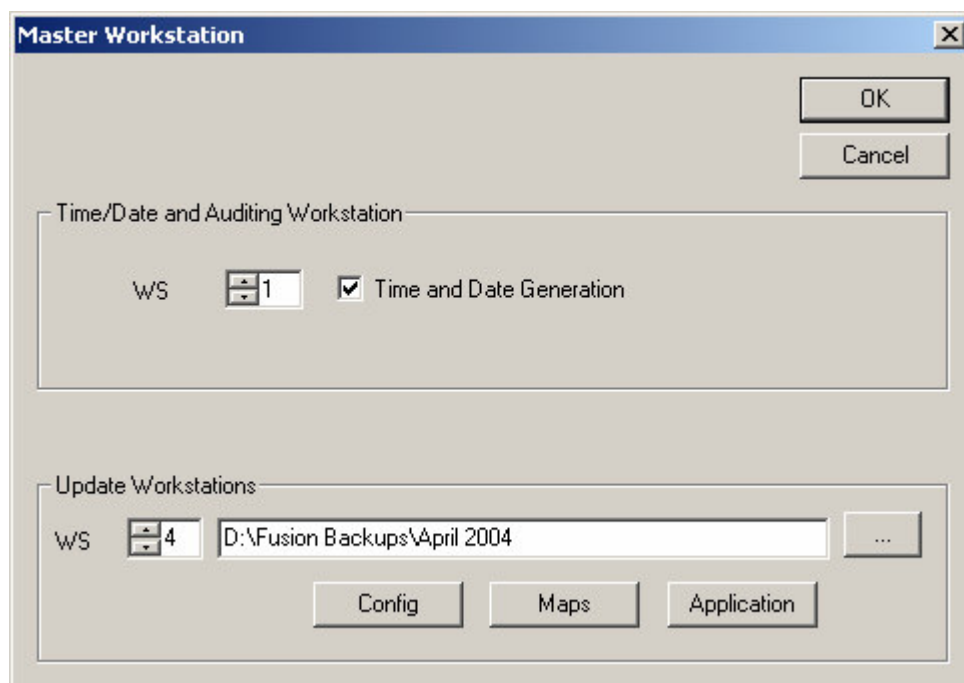
After Using FUSION Edit to Configure the System

1. Ensure the directory **\meyertech\fusion\maps** is backed up.
2. Ensure directory **\meyertech\fusion\equipment** is backed up.

Backups

Always ensure FUSION back up's are stored separately from the PC, EG CD, DVD, Iomega Zip drive ETC. This will protect the data from computer errors and/or data corruption.

FusionEdit will assist in the backup procedure by first selecting the MASTER WS icon from the toolbar.



The Update Workstations section allows configuration data to be copied onto other Workstations – it can also be used to copy configuration to a backup location.

Select the WS number to be configured (for backup use a WS number that doesn't correspond to an existing workstation).

Use the file browse button  to identify the network location of the data files on the other workstations. On each machine the directory location should be ***Meyertech\Fusion***.

Once the network locations have been identified then specific items of the Fusion installation can be copied to the other workstations, one workstation at a time.

Config button : This will optionally copy the individual component configuration items to the specified workstation.

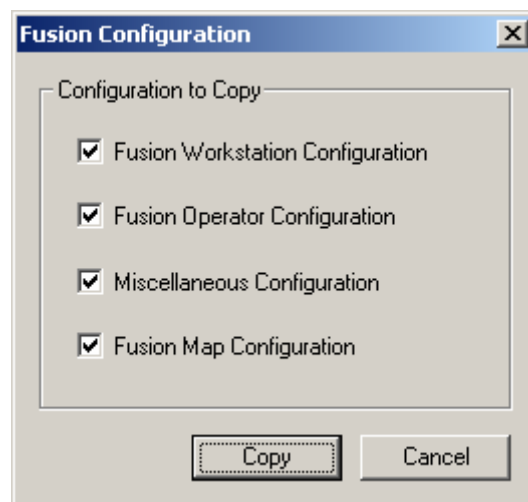
WARNING – do not alter the tick boxes unless fully aware of the consequences

Fusion Workstation – Workstation setup details

Fusion Operator – User names, passwords and access privileges

Miscellaneous – General configuration

Fusion Map – Map configuration including icon positions.



Maps button : This will copy all the map images to the specified workstation.

Application button : This will copy all the application components to the specified workstation. This should only be used to upgrade an existing installation. It will not generate a new Fusion installation. This option will only succeed if the Fusion application on target workstation has been closed.

Appendix A

FUSION EDIT Start-up Procedure

Normally when your FUSION workstation is powered-up, after being shut down in the recommended way, after loading Windows it will automatically boot straight into the FUSION application. If it fails to do this you can run the FUSION application by double clicking the FUSION icon from the desktop.

To run FUSION EDIT, exit FUSION by logging off and exiting FUSION using a manager or engineers account.

It is recommended that the application FUSION SUITE is used to manage switching between FUSION applications.

FUSION Recovery Procedure

If FUSION EDIT fails to respond to user input the program or operating system might have crashed. The problem may manifest itself in a number of ways EG a Windows error screen may appear advising the application is about to close, the appearance of the egg-timer icon indicating the system is executing a command; but never completes it resulting in a 'locked-up' appearance; ETC

Fault Logging and Reporting

In order for faults to be fixed in future releases of Windows and FUSION EDIT it is important that all faults are logged and reported to Meyertech.

When you experience a fault please note down as much information as you can about the status of the system when the fault occurred IE:

- What operation, if any was being performed at the time the fault occurred?
- If there are any error messages on the screen please carefully note them down before clearing them.
- How did you rectify the fault EG reset the PC

General Recovery From a Fault

If a minor fault occurs recovery can normally be achieved by simply logging-off FUSION EDIT and then logging back on. Follow the procedure below:

1. Select LOG-OFF FUSION EDIT from the toolbar.
2. Select your User Name from the User Log-on list shown on the left. If your name is not currently visible scroll up or down the list until you find it using the slider bar on the right of the list.
3. Now press the Log-on button.
4. The on-screen keyboard will then pop-up. Enter your Password or PIN and press ENTER.
5. If the problem persists you may have to restart Windows by quitting FUSION EDIT and restarting Windows.

6. Next restart Windows. The workstation will automatically 'Boot-up' into the FUSION application.

Recovery From a Major Fault

Recovery from a more serious fault may mean you cannot log-off FUSION EDIT. In this case follow the procedure below:

1. Locate the PC keyboard and press Ctrl, Alt, Delete simultaneously.
2. A pop-up window will appear giving you the option to end applications, which are currently running.
3. Select 'Meyertech Fusion Edit' followed by 'End Task'
4. Restart FUSION by double clicking the FUSION icon on the desktop.

Alternatively if Ctrl, Alt, Delete does not work. Locate the PC and press the reset button. If the PC does not have a reset button power-down the PC, wait five minutes and then power-up the PC. The workstation will automatically 'Boot-up' into the FUSION application.

If all of the above fail it is possible data corruption has occurred. You may have to:

1. Re-install FUSION and FUSION EDIT
2. Restore the FUSION data files you have previously backed up.

please contact Meyertech Support

Appendix B

PCI-200Li RS-485 Board Configuration

This add-in PCI card is required to connect a ZVK-66 keyboard directly to a Fusion Workstation.

The board switch settings S1 (for COM-A) and S2 (for COM-B) on the Easy Sync PCI-200Li should be setup and configured to work with RS-485 full duplex.

The board jumper settings for each of the two ports allow you to change the termination and biasing settings of the data transmission lines. It is necessary to disable the jumper settings for Termination TxD and Termination CTS. The remaining settings, Bias Tx+, Bias Tx-, Termination RxD, Bias Rx+ and Bias Rx- should all be enabled.

Please see the PCI-200Li board manual for more details.

Fusion Configuration

Fusion is configured to run without a directly connected ZVK-66 keyboard by default. To make Fusion work with a directly connected keyboard it is necessary to modify a registry entry. Launch regedit.exe (Start→Run) and navigate to the key:

[HKEY_LOCAL_MACHINE\Software\Meyertech\Fusion\Split2\Communications\Standalone Keyboard](#)

In this key we must modify the value "Port" (of type DWORD), which holds the RS-485 serial port number to be used for communications between Fusion and the ZVK-66. If this value is set to 0 then Fusion will run without support for the directly connected keyboard.